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# The Ontario Gazette La Gazette de l'Ontario

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## MOTOR VEHICLE TRANSPORT ACT, 1987 LOI DE 1987 SUR LES TRANSPORTS ROUTIERS

### MOTOR VEHICLE TRANSPORT ACT, 1987, PART II TRUCK APPLICATIONS:

The following are applications for extra-provincial truck transport operating licences under Part II of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These Applicants have been found to meet the fitness requirements pursuant to Section 8(2) of that Act and the provincial transport board for Ontario proposes to issue the licences if no objection is served on the Applicant and filed with the Registrar of Motor Vehicles with the prescribed filing fee, within twenty-nine days of this publication.

### EXTRA-PROVINCIAL APPLICATIONS:

**NOTE:** Where the application is for a licence other than a corridor operating authority, an interested person who serves and files an objection must also provide the Ontario Highway Transport Board with written evidence, within thirty-nine days of this publication that satisfies that Board that, in the absence of evidence to the contrary, the operation of the undertaking in respect of which the licence is sought would likely be detrimental to the public interest.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below for extra-provincial movement, between (00000) POINTS IN ONTARIO and the:

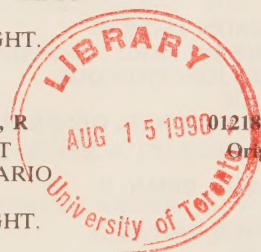
### ONTARIO/QUEBEC, ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:

**\*BILODEAU, BERTRAND** 102089431  
540 CHEMIN VILLE-MARIE  
BEAUMONT QUE  
GOR 1C0  
GENERAL FREIGHT. Original

**\*BRAY, BYRON, R** 035099959  
PTL 26 C2 EBR ALBEMARLE TP  
WIARTON R4, ONTARIO  
NOH 2T0  
GENERAL FREIGHT. Original

**\*CLARKE, KEVIN, R** 012186733  
85 ST VINCENT ST  
MEAFORD, ONTARIO  
NOH 1Y0  
GENERAL FREIGHT. Original

**\*COLEMAN'S MOVING &  
STORAGE LTD** 012215388  
933 BLOOR ST W  
OSHAWA, ONTARIO  
L1J 5Y7  
GENERAL FREIGHT; NEW VEHICLES. Amend



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Imprimé par Dennis P. Caplice, ©Imprimeur de la Reine pour l'Ontario  
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<p><b>*DAVIS, WAYNE, ALBERT</b> L7 C1 F OF L AND L LANSDOWNE, ONTARIO K0E 1L0 OWNER DRIVER, exempt from Public Interest Test.</p>	<p>000787326 Original</p>	<p><b>*INSTANT FREIGHT SERVICES INC.</b> 209 WILKINSON ROAD BRAMPTON, ONTARIO L6T 4M2 GENERAL FREIGHT.</p> <p>102433105 Original</p>
<p><b>*DE LA FONTAINE</b> (DIVISION TRANSPORT) INC. 6045 RUE RODRIGUE ROCK FOREST QUEBEC J1N 3A7 GENERAL FREIGHT.</p>	<p>088271249 Original</p>	<p><b>J. R. HUDSON HORSE TRANSPORTATION INC.</b> 435 WEST ST BRAINTREE MASSACHUSETTS, USA 02184 GENERAL FREIGHT.</p> <p>102489580 Original</p>
<p><b>*DEMENAGEMENT J. BRAULT INC.</b> 859 ST-JACQUES ST-JEAN-SUR-RICHELIEU QC J3B 2N2 GENERAL FREIGHT.</p>	<p>079921019 Amend</p>	<p><b>*JONES TRANSPORT CO LIMITED</b> 2 WILSON ST W PERTH, ONTARIO K7H 2M6 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (40000) BRANT CO, (16000) HAMILTON-WENTWORTH R, (01000) METROPOLITAN TORONTO R, (20000) OTTAWA-CARLETON R, (75000) WELLINGTON CO.</p> <p>063465119 Original</p>
<p><b>*F.G. PLANTE INC.</b> 160 ST JACQUES BONCONSEIL QUE J0C 1A0 OWNER DRIVER, exempt from Public Interest Test.</p>	<p>088335919 Original</p>	<p><b>*JULIEN PRINCE PAYSAGISTE INC.</b> 1187 BOUL DESAULNIER 2 LONGUEUIL QUEBEC J4K 1K8 SINGLE SOURCE; GENERAL FREIGHT.</p> <p>080966170 Original</p>
<p><b>*G &amp; W FREIGHTWAYS LTD</b> 101 DONEY CR CONCORD, ONTARIO L4K 1P6 INTERMEDIARY.</p>	<p>051548339 Original</p>	<p><b>*KUBISESKI, JOSEPH, A</b> 9 CAMERON ST DOUGLAS, ONTARIO K0J 1S0 GENERAL FREIGHT; TANK.</p> <p>001829381 Original</p>
<p><b>*GAGNON, JACQUES</b> 41 RUE DU PARC SCOTT JONCTION QUE G0S 3G0 SINGLE SOURCE; GENERAL FREIGHT.</p>	<p>098951134 Original</p>	<p><b>*LES ENTREPRISES MARIDEY INC</b> 19005 ST LOUIS ST HYACINTHE PQ J2S 8B1 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.</p> <p>085170341 Original</p>
<p><b>*GILROY, BRIAN, D</b> L25 C3 ZEPHYR, ONTARIO L0E 1T0 GENERAL FREIGHT; TANK.</p>	<p>008964237 Original</p>	<p><b>*LES TRANSPORTS MAGUINA INC</b> 1106 CHAMOVIX ST JEAN CHRYSOSTOME QUEBEC G6Z 1V9 SINGLE SOURCE.</p> <p>092619581 Amend</p>
<p><b>*GOODING, ROBERT, JAMES</b> L8 C6 RAWDON TP STIRLING R1, ONTARIO K0K 3E0 GENERAL FREIGHT.</p>	<p>032160315 Original</p>	<p><b>*LES TRANSPORTS ROUTIERS FERNAND PLOUFFE INC</b> 4895 TROYAT LAVAL QUEST LAVAL, QUEBEC H7R 5L1 OWNER DRIVER, exempt from Public Interest Test.</p> <p>081843340 Original</p>
<p><b>*GUARANTEED TRANSPORT LTD</b> 140 MILNER AV UN42 SCARBOROUGH, ONTARIO M1S 3R3 GENERAL FREIGHT.</p>	<p>091505310 Original</p>	



<b>*MACLEOD, DAVID, B</b> 2184 MAJOR MACKENZIE DR MAPLE, ONTARIO L6A 1R7 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R, (27405) VAUGHAN T.	009800498 Original	<b>REO DISTRIBUTION SERVICES</b> <b>INC.</b> RTE624DELPHINE RD RTE1BX110 LYNDHURST VA, USA 22952 GENERAL FREIGHT.	102070615 Original
<b>*MACMUNN, A,T, RODGER</b> L17 C1 OLDEN TP. MOUNTAIN GROVE R3, ONTARIO K0H 2E0 GENERAL FREIGHT.	069716723 Original	<b>*ROBERTSON, DANIEL, R</b> L3 C10 REAR LEEDS/LANS LYNDHURST R2, ONTARIO K0E 1N0 GENERAL FREIGHT.	074331830 Original
<b>*MAREK, JOHN, B</b> L10 C7 AMABEL TP HEPWORTH R1, ONTARIO N0H 1P0 SINGLE SOURCE.	044598863 Original	<b>*STORMS, WAYNE, D</b> 430 KENNY CRT BX541 PORT PERRY, ONTARIO L0B 1N0 SINGLE SOURCE; GENERAL FREIGHT.	038017073 Original
<b>MCPHERSON BROS. INC.</b> 496 120TH AVENUE NORWALK IOWA, USA 50211 GENERAL FREIGHT.	102282716 Original	<b>*TILLEY, ROBIN, R</b> 45 POND MILLS RD AP210 LONDON, ONTARIO N6E 1L3 SINGLE SOURCE; INTERMEDIARY; GEN- ERAL FREIGHT.	074921934 Original
<b>*MOTT, DONALD, GEORGE</b> 114 PAULINE CRES UNIT44 LONDON, ONTARIO N6E 2X6 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	029450461 Original	<b>*TRANSPORT ANDRE TURCOTTE</b> <b>INC</b> 137 RUE DES PRES VERTS ST HENRI DE LEVIS G0R 3E0 SINGLE SOURCE; GENERAL FREIGHT.	099287818 Original
<b>PSR ENTERPRISES INC</b> 824 NIGHTINGALE DEARBORN MI, USA 48128 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	102628074 Original	<b>*TRANSPORT FPRL INC</b> 5545 RUE LAFLAMME TROIS RIVIERES QUEBEC G8Y 6L2 SINGLE SOURCE; GENERAL FREIGHT.	090737669 Original
<b>*PATRY, GILLES</b> 214 BEAULIEU ST MANIWAKI QUEBEC J9E 1B1 SINGLE SOURCE; GENERAL FREIGHT.	101516816 Original	<b>*TRANSPORT HENDY INC</b> 220 PRINCIPALE ST LUC QUEBEC G0R 1L0 SINGLE SOURCE; GENERAL FREIGHT.	087320380 Original
<b>*PIERGIL TRANSPORT INC.</b> 64 9 IEME RUE MONTMAGNY QUEBEC G5V 3C9 SINGLE SOURCE; GENERAL FREIGHT.	100277760 Original	<b>*TRANSPORT JEAN-LUC CARRIER</b> <b>INC.</b> 1460 DES PINS VAL D OR QC J9P 5K8 GENERAL FREIGHT.	093996335 Amend
<b>*REAL PRINCE INC</b> 5 ROYALE VICTORIAVILLE PQ G6P 6R8 OWNER DRIVER, exempt from Public Interest Test.	091811362 Original	<b>*TRANSPORT MIDEN INC</b> 120 PRESENTATION ST-PIE QC J0H 1W0 SINGLE SOURCE; GENERAL FREIGHT.	095871177 Original
		<b>*TRANSPORT 1508 INC</b> 1508 CHEMIN DU SAULT ST-ROMUALD QUEBEC G6W 2M3 SINGLE SOURCE.	097032297 Amend

<b>VIRONICO SYSTEMS INC</b> L5 C2 INNISFIL COOKSTOWN R1, ONTARIO L0L 1C0 GENERAL FREIGHT.	<b>091299189</b> Amend	<b>*2330-7887 QUEBEC INC</b> 62 PRATIE TROIS RIVIERES OUEST QUEBEC G9B 1H3 SINGLE SOURCE; GENERAL FREIGHT.	<b>085674518</b> Original
<b>*WATSON, WILLIAM, H</b> L3 C11 E WMS TP PARKHILL, ONTARIO N0M 2K0 GENERAL FREIGHT; TANK.	<b>042188749</b> Original	<b>*2428-4671 QUEBEC INC.</b> 4254 43E RUE ST MICHEL MONTREAL QUEBEC H1Z 1R6 SINGLE SOURCE; GENERAL FREIGHT.	<b>092921419</b> Original
<b>*WHITE, KENNETH, J</b> 5656 GORDON ST BOX 203 OSGOODE, ONTARIO K0A 2W0 GENERAL FREIGHT.	<b>042234088</b> Original	<b>*2754-1572 QUEBEC INC.</b> 44 RUE PRINCIPALE ST-JUSTE DU LAC QUEBEC G0L 3R0 GENERAL FREIGHT.	<b>102388965</b> Original
<b>*WILLIAMS, RANDY, A</b> 13 HIGHLAND DR BRANTFORD R4, ONTARIO N3T 5L7 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (40000) BRANT CO.	<b>049990315</b> Original	<b>*705009 ONTARIO INC</b> 177 UNION ST BOX 323 BELMONT, ONTARIO N0L 1B0 SINGLE SOURCE; GENERAL FREIGHT.	<b>096710251</b> Original
<b>*119181 CANADA INC</b> 22 SONNY, RR#1 ST-SAUVEUR, QUEBEC J0R 1R0 SINGLE SOURCE; GENERAL FREIGHT.	<b>084442826</b> Original	<b>*715231 ONTARIO INC.</b> L7 PLAN-1026 TP OF W NISSOURI THORNDALÉ, ONTARIO N0M 2P0 GENERAL FREIGHT; TANK.	<b>102384131</b> Original
<b>*131392 CANADA LTEE</b> 476 WELLESLEY HAWKESBURY ONT. K6A 2G1 SINGLE SOURCE; GENERAL FREIGHT.	<b>091114187</b> Original	<b>*800644 ONTARIO LTD.</b> 396 KINMOUNT CR OSHAWA, ONTARIO L1J 3T7 SINGLE SOURCE.	<b>094930485</b> Original
<b>*157998 CANADA INC</b> 1500 ROUTE 343 VAUCLUSE QUE J0K 3P0 SINGLE SOURCE; GENERAL FREIGHT.	<b>089476450</b> Original	<b>*809298 ONTARIO INC.</b> 845 CARTIER BLVD HAWKESBURY, ONTARIO K6A 1W9 GENERAL FREIGHT.	<b>102379759</b> Original
<b>*166707 CANADA INC.</b> 20 RUE ROW MATAGAMIE QUE J0Y 2A0 SINGLE SOURCE; GENERAL FREIGHT.	<b>102028695</b> Original	<b>*834241 ONTARIO LTD</b> L11 C1 CALEDON CALEDON R2, ONTARIO L0N 1C0 GENERAL FREIGHT.	<b>099512067</b> Original
<b>*166842 CANADA INC.</b> 101 PLAMONDON DRUMMONDVILLE QUEBEC J2C 3V9 OWNER DRIVER, exempt from Public Interest Test.	<b>102148318</b> Original	<b>*853391 ONTARIO LIMITED</b> L1 C4 NORWICH TP WOODSTOCK RR8, ONTARIO N4S 7W3 GENERAL FREIGHT; TANK.	<b>102408483</b> Original
<b>*2166-0691 QUEBEC INC.</b> 196 QUINN LA PLAINE QUE J0N 1B0 SINGLE SOURCE; GENERAL FREIGHT.	<b>102390819</b> Original	<b>*879095 ONTARIO INC</b> 93 ROBERTS CR KITCHENER, ONTARIO N2R 1C9 SINGLE SOURCE.	<b>101777162</b> Original



**ONTARIO/QUEBEC, ONTARIO/MANITOBA  
BORDER CROSSINGS:****GERALD L REIMER HOLDINGS  
LTD**

4859-30TH ST SE  
CALGARY ALBERTA  
T2B 2S5  
GENERAL FREIGHT.

102342686  
Original

**ONTARIO/QUEBEC, ONTARIO/USA BORDER  
CROSSINGS:****LIBERTY EXPRESS INC.**

3194-15th AVE BLVD SE  
CONOVER NC, USA  
28615  
GENERAL FREIGHT.

101954527  
Original

**\*PERRAS, RAYMOND, JOHN**  
5520 4TH LINE ROAD RR3  
NORTH GOWER, ONTARIO  
K0A 2T0  
GENERAL FREIGHT.

029688288  
Amend

**\*ROTH, HOWARD, P**  
9 QUEEN ST  
TAVISTOCK R1, ONTARIO  
N0B 2R0  
GENERAL FREIGHT.

033822325  
Original

**STAN LEWIS TRUCKING**

LTD  
35 KING ST BOX 1292  
DIGBY NOVA SCOTIA  
B0V 1A0  
GENERAL FREIGHT.

078621492  
Original

**ONTARIO/MANITOBA BORDER CROSSINGS:**

**\*J & R BURSTROM  
CONTRACTORS LTD**  
TB28059 HAGEY BOX25  
SHEBANDOWAN, ONTARIO  
P0T 2T0  
GENERAL FREIGHT.

097741747  
Original

**ONTARIO/USA BORDER CROSSINGS:****CONTRACT FREIGHTERS INC.**

2900 DAVIS BLVD  
JOPLIN MISSOURI, USA  
64804  
GENERAL FREIGHT.

080279960  
Original

**\*DAVIS, WAYNE, ALBERT**

L7 C1 F OF L AND L  
LANSDOWNE, ONTARIO  
K0E 1L0  
GENERAL FREIGHT; HOUSEHOLD GOODS,  
provided that the licensee has a place or places of  
business only at: (56000) LEEDS & GRENVILLE  
CO.

000787326  
Original

**\*GREG PHILLIPS TRUCKING  
LTD**

L13 C9 GOSF N BOX 100  
COTTAM R1, ONTARIO  
N0R 1B0  
GENERAL FREIGHT; TANK.

024490943  
Amend

**HODGE TRUCKING COMPANY**

707 NW TEXAS ST BOX 386  
HOXIE ARKANSAS, USA  
72433  
GENERAL FREIGHT.

101286060  
Original

**HULL & SMITH HORSE VANS  
INC.**

342 BIRCH RR1 BOX12  
ASHLAND NEBRASKA, USA  
68003  
GENERAL FREIGHT.

102493427  
Original

**R. J. LIDDY TRANSPORT  
INC.**

13101 ECKLES ROAD  
PLYMOUTH MICHIGAN, USA  
48170  
GENERAL FREIGHT.

102610464  
Original

**RAISIN VALLEY INC**

11608 ROUGET RD  
BLISSFIELD MI, USA  
49228  
GENERAL FREIGHT.

102610102  
Original

**MOTOR VEHICLE TRANSPORT  
ACT, 1987****LOI DE 1987 SUR LES  
TRANSPORTS ROUTIERS****INTRA-PROVINCIAL TRUCK APPLICATIONS:**

The following are applications for operating licences under Part III of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These applicants have been found to meet the fitness requirement in like manner to section 6 of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and the provincial transport board for Ontario proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test in like manner to Subsection 7(4) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64.

**NOTE:** A person who requests a public interest hearing must, within thirty-nine days of this publication, serve on the Ontario Highway Transport Board a document that makes out a written case to the Board that the granting of the operating authority applied for would be likely to have a significant detrimental effect on the public interest

using the criteria set out in subsection 10(1) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and that the request is not frivolously made.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:

**\*BILODEAU, BERTRAND** 102089431  
Original  
540 CHEMIN VILLE-MARIE  
BEAUMONT QUE  
G0R 1C0  
GENERAL FREIGHT.

**\*BRAY, BYRON, R** 035099959  
Original  
PTL 26 C2 EBR ALBEMARLE TP  
WIARTON R4, ONTARIO  
N0H 2T0  
GENERAL FREIGHT.

**\*CLARKE, KEVIN, R** 012186733  
Original  
85 ST VINCENT ST  
MEAFORD, ONTARIO  
N0H 1Y0  
GENERAL FREIGHT; TANK.

**\*COLEMAN'S MOVING & STORAGE LTD** 012215388  
Amend  
933 BLOOR ST W  
OSHAWA, ONTARIO  
L1J 5Y7  
GENERAL FREIGHT; NEW VEHICLES.

**\*DAVIS, WAYNE, ALBERT** 000787326  
Original  
L7 C1 F OF L AND L  
LANSLOWNE, ONTARIO  
K0E 1L0  
OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (56000) LEEDS & GRENVILLE CO.

**\*DE LA FONTAINE (DIVISION TRANSPORT) INC.** 088271249  
Original  
6045 RUE RODRIGUE  
ROCK FOREST QUEBEC  
J1N 3A7  
GENERAL FREIGHT.

**\*DEMENAGEMENT J. BRAULT INC.** 079921019  
Amend  
859 ST-JACQUES  
ST-JEAN-SUR-RICHELIEU QC  
J3B 2N2  
GENERAL FREIGHT; HOUSEHOLD GOODS.

**\*F.G. PLANTE INC.** 088335919  
Original  
160 ST JACQUES  
BONCONSEIL QUE  
J0C 1A0  
OWNER DRIVER, exempt from Public Interest Test.

**\*G & W FREIGHTWAYS LTD** 051548339  
Original  
101 DONEY CR  
CONCORD, ONTARIO  
L4K 1P6  
INTERMEDIARY.

**\*GAGNON, JACQUES** 098951134  
Original  
41 RUE DU PARC  
SCOTT JUNCTION QUE  
G0S 3G0  
SINGLE SOURCE; GENERAL FREIGHT.

**\*GILROY, BRIAN, D** 008964237  
Original  
L25 C3  
ZEPHYR, ONTARIO  
L0E 1T0  
GENERAL FREIGHT; TANK.

**\*GOODING, ROBERT, JAMES** 032160315  
Original  
L8 C6 RAWDON TP  
STIRLING R1, ONTARIO  
K0K 3E0  
GENERAL FREIGHT.

**\*GREG PHILLIPS TRUCKING LTD** 024490943  
Amend  
L13 C9 GOSF N BOX 100  
COTTAM R1, ONTARIO  
N0R 1B0  
GENERAL FREIGHT; TANK.

**\*GUARANTEED TRANSPORT LTD** 091505310  
Original  
140 MILNER AV UN42  
SCARBOROUGH, ONTARIO  
M1S 3R3  
GENERAL FREIGHT.

**\*INSTANT FREIGHT SERVICES INC.** 102433105  
Original  
209 WILKINSON ROAD  
BRAMPTON, ONTARIO  
L6T 4M2  
GENERAL FREIGHT.

**\*J & R BURSTROM CONTRACTORS LTD** 097741747  
Original  
TB28059 HAGEY BOX25  
SHEBANDOWAN, ONTARIO  
P0T 2T0  
GENERAL FREIGHT.

**\*JONES TRANSPORT CO LIMITED** 063465119  
Original  
2 WILSON ST W  
PERTH, ONTARIO  
K7H 2M6  
GENERAL FREIGHT; TANK; HOUSEHOLD



GOODS, provided that the licensee has a place or places of business only at: (40000) BRANT CO, (16000) HAMILTON-WENTWORTH R, (01000) METROPOLITAN TORONTO R, (20000) OTTAWA-CARLETON R, (75000) WELLINGTON CO.		<b>*MAREK, JOHN, B</b> L10 C7 AMABEL TP HEPWORTH R1, ONTARIO N0H 1P0 SINGLE SOURCE; GENERAL FREIGHT.	<b>044598863</b> Original
<b>*JULIEN PRINCE PAYSAGISTE INC.</b> 1187 BOUL DESAULNIER 2 LONGUEUIL QUEBEC J4K 1K8 SINGLE SOURCE; GENERAL FREIGHT.	<b>080966170</b> Original	<b>*MOTT, DONALD, GEORGE</b> 114 PAULINE CRES UNIT44 LONDON, ONTARIO N6E 2X6 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>029450461</b> Original
<b>KELSEY-TRAIL TRUCKING LTD.</b> 1206 MAIN ST TISDALE SASKATCHEWAN S0E 1T0 GENERAL FREIGHT.	<b>091584806</b> Amend	<b>*PATRY, GILLES</b> 214 BEAULIEU ST MANIWAKI QUEBEC J9E 1B1 SINGLE SOURCE; GENERAL FREIGHT.	<b>101516816</b> Original
<b>*KUBISESKI, JOSEPH, A</b> 9 CAMERON ST DOUGLAS, ONTARIO K0J 1S0 GENERAL FREIGHT; TANK.	<b>001829381</b> Original	<b>*PERRAS, RAYMOND, JOHN</b> 5520 4TH LINE ROAD RR3 NORTH GOWER, ONTARIO K0A 2T0 GENERAL FREIGHT.	<b>029688288</b> Amend
<b>*LES ENTREPRISES MARIDEY INC</b> 19005 ST LOUIS ST HYACINTHE PQ J2S 8B1 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>085170341</b> Original	<b>*PIERGIL TRANSPORT INC.</b> 64 9 IE ME RUE MONTMAGNY QUEBEC G5V 3C9 SINGLE SOURCE; GENERAL FREIGHT.	<b>100277760</b> Original
<b>*LES TRANSPORTS MAGUINA INC</b> 1106 CHAMOVIX ST JEAN CHRYSSOSTOME QUEBEC G6Z 1V9 SINGLE SOURCE.	<b>092619581</b> Amend	<b>*REAL PRINCE INC</b> 5 ROYALE VICTORIAVILLE PQ G6P 6R8 OWNER DRIVER, exempt from Public Interest Test.	<b>091811362</b> Original
<b>*LES TRANSPORTS ROUTIERS FERNAND PLOUFFE INC</b> 4895 TROYAT LAVAL QUEST LAVAL, QUEBEC H7R 5L1 OWNER DRIVER, exempt from Public Interest Test.	<b>081843340</b> Original	<b>*ROBERTSON, DANIEL, R</b> L3 C10 REAR LEEDS/LANS LYNDHURST R2, ONTARIO K0E 1N0 GENERAL FREIGHT.	<b>074331830</b> Original
<b>*MACLEOD, DAVID, B</b> 2184 MAJOR MACKENZIE DR MAPLE, ONTARIO L6A 1R7 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R, (27405) VAUGHAN T.	<b>009800498</b> Original	<b>*ROTH, HOWARD, P</b> 9 QUEEN ST TAVISTOCK R1, ONTARIO N0B 2R0 GENERAL FREIGHT.	<b>033822325</b> Original
<b>*MACMUNN, A.T, RODGER</b> L17 C1 OLDEN TP. MOUNTAIN GROVE R3, ONTARIO K0H 2E0 GENERAL FREIGHT.	<b>069716723</b> Original	<b>*STORMS, WAYNE, D</b> 430 KENNY CRT BX541 PORT PERRY, ONTARIO L0B 1N0 SINGLE SOURCE; GENERAL FREIGHT.	<b>038017073</b> Original
		<b>*TILLEY, ROBIN, R</b> 45 POND MILLS RD AP210 LONDON, ONTARIO N6E 1L3 SINGLE SOURCE; INTERMEDIARY; GENERAL FREIGHT.	<b>074921934</b> Original

*TRANSPORT ANDRE TURCOTTE INC 137 RUE DES PRES VERTS ST HENRI DE LEVIS G0R 3E0 SINGLE SOURCE; GENERAL FREIGHT.	099287818 Original	*131392 CANADA LTEE 476 WELLESLEY HAWKESBURY ONT. K6A 2G1 SINGLE SOURCE; GENERAL FREIGHT.	091114187 Original
*TRANSPORT FPRL INC 5545 RUE LAFLAMME TROIS RIVIERES QUEBEC G8Y 6L2 SINGLE SOURCE; GENERAL FREIGHT.	090737669 Original	*157998 CANADA INC 1500 ROUTE 343 VAUCLUSE QUE J0K 3P0 SINGLE SOURCE; GENERAL FREIGHT.	089476450 Original
*TRANSPORT HENDY INC 220 PRINCIPALE ST LUC QUEBEC G0R 1L0 SINGLE SOURCE; GENERAL FREIGHT.	087320380 Original	*166707 CANADA INC. 20 RUE ROW MATAGAMIE QUE J0Y 2A0 SINGLE SOURCE; GENERAL FREIGHT.	102028695 Original
*TRANSPORT JEAN-LUC CARRIER INC. 1460 DES PINS VAL D OR QC J9P 5K8 GENERAL FREIGHT.	093996335 Amend	*166842 CANADA INC. 101 PLAMONDON DRUMMONDVILLE QUEBEC J2C 3V9 OWNER DRIVER, exempt from Public Interest Test.	102148318 Original
*TRANSPORT MIDEN INC 120 PRESENTATION ST-PIE QC J0H 1W0 SINGLE SOURCE; GENERAL FREIGHT.	095871177 Original	*2166-0691 QUEBEC INC. 196 QUINN LA PLAINE QUE J0N 1B0 SINGLE SOURCE; GENERAL FREIGHT.	102390819 Original
*TRANSPORT 1508 INC 1508 CHEMIN DU SAULT ST-ROMUALD QUEBEC G6W 2M3 SINGLE SOURCE; GENERAL FREIGHT.	097032297 Amend	*2330-7887 QUEBEC INC 62 PRATIE TROIS RIVIERES OUEST QUEBEC G9B 1H3 SINGLE SOURCE; GENERAL FREIGHT.	085674518 Original
*WATSON, WILLIAM, H L3 C11 E WMS TP PARKHILL, ONTARIO N0M 2K0 GENERAL FREIGHT; TANK.	042188749 Original	*2428-4671 QUEBEC INC. 4254 43E RUE ST MICHEL MONTREAL QUEBEC H1Z 1R6 SINGLE SOURCE; GENERAL FREIGHT.	092921419 Original
*WHITE, KENNETH, J 5656 GORDON ST BOX 203 OSGOODE, ONTARIO K0A 2W0 GENERAL FREIGHT.	042234088 Original	*2754-1572 QUEBEC INC. 44 RUE PRINCIPALE ST-JUSTE DU LAC QUEBEC G0L 3R0 GENERAL FREIGHT.	102388965 Original
*WILLIAMS, RANDY, A 13 HIGHLAND DR BRANTFORD R4, ONTARIO N3T 5L7 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (40000) BRANT CO.	049990315 Original	*705009 ONTARIO INC 177 UNION ST BOX 323 BELMONT, ONTARIO N0L 1B0 SINGLE SOURCE; GENERAL FREIGHT.	096710251 Original
*119181 CANADA INC 22 SONNY, RR#1 ST-SAUVEUR, QUEBEC J0R 1R0 SINGLE SOURCE; GENERAL FREIGHT.	084442826 Original	*715231 ONTARIO INC. L7 PLAN-1026 TP OF W NISSOURI THORNDALE, ONTARIO N0M 2P0 GENERAL FREIGHT; TANK.	102384131 Original
		*800644 ONTARIO LTD. 396 KINMOUNT CR OSHAWA, ONTARIO L1J 3T7 SINGLE SOURCE	094930485 Original



<b>*809298 ONTARIO INC.</b> 845 CARTIER BLVD HAWKESBURY, ONTARIO K6A 1W9 GENERAL FREIGHT.	<b>102379759</b> Original	<b>DE LA FONTAINE</b> (DIVISION TRANSPORT) INC. 6045 RUE RODRIGUE ROCK FOREST QUEBEC J1N 3A7 GENERAL FREIGHT.	<b>088271249</b> Original
<b>*834241 ONTARIO LTD</b> L11 C1 CALEDON CALEDON R2, ONTARIO L0N 1C0 GENERAL FREIGHT; TANK.	<b>099512067</b> Original	<b>DEMENAGEMENT J. BRAULT</b> INC. 859 ST-JACQUES ST-JEAN-SUR-RICHELIEU QC J3B 2N2 GENERAL FREIGHT.	<b>079921019</b> Amend
<b>*853391 ONTARIO LIMITED</b> L1 C4 NORWICH TP WOODSTOCK RR8, ONTARIO N4S 7W3 GENERAL FREIGHT; TANK.	<b>102408483</b> Original	<b>GAGNON, JACQUES</b> 41 RUE DU PARC SCOTT JONCTION QUE G0S 3G0 GENERAL FREIGHT.	<b>098951134</b> Original
<b>*879095 ONTARIO INC</b> 93 ROBERTS CR KITCHENER, ONTARIO N2R 1C9 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>101777162</b> Original	<b>GILROY, BRIAN, D</b> L25 C3 ZEPHYR, ONTARIO L0E 1T0 GENERAL FREIGHT; TANK.	<b>008964237</b> Original
<b>CORRIDOR APPLICATIONS:</b>			
<b>NOTE:</b> The Motor Vehicle Transport Act, 1987, Regulations SOR 1987-1026, section 9 pro- vides that a corridor operation is exempt from the application of subsections 8(3) to (5) of the Act (public interest test).			
The following applicants have applied for Author- ity to offer a transportation service through Ontario, provided there is no pickup or delivery in Ontario, utilizing the appropriate border crossings:			
<b>ONTARIO/QUEBEC, ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:</b>		<b>GUARANTEED TRANSPORT</b> LTD 140 MILNER AV UN42 SCARBOROUGH, ONTARIO M1S 3R3 GENERAL FREIGHT.	<b>091505310</b> Original
<b>BILODEAU, BERTRAND</b> 540 CHEMIN VILLE-MARIE BEAUMONT QUE G0R 1C0 GENERAL FREIGHT.	<b>102089431</b> Original	<b>INSTANT FREIGHT SERVICES</b> INC. 209 WILKINSON ROAD BRAMPTON, ONTARIO L6T 4M2 GENERAL FREIGHT.	<b>102433105</b> Original
<b>CLARKE, KEVIN, R</b> 85 ST VINCENT ST MEAFORD, ONTARIO N0H 1Y0 GENERAL FREIGHT.	<b>012186733</b> Original	<b>J. R. HUDSON HORSE</b> TRANSPORTATION INC. 435 WEST ST BRAINTREE MASSACHUSETTS, USA 02184 GENERAL FREIGHT.	<b>102489580</b> Original
<b>COLEMAN'S MOVING &amp; STORAGE LTD</b> 933 BLOOR ST W OSHAWA, ONTARIO L1J 5Y7 GENERAL FREIGHT; NEW VEHICLES.	<b>012215388</b> Amend	<b>JONES TRANSPORT CO</b> LIMITED 2 WILSON ST W PERTH, ONTARIO K7H 2M6 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>063465119</b> Original
<b>CONTRACT FREIGHTERS INC.</b> 2900 DAVIS BLVD JOPLIN MISSOURI, USA 64804 GENERAL FREIGHT.	<b>080279960</b> Original	<b>JULIEN PRINCE PAYSAGISTE</b> INC. 1187 BOUL DESAULNIER 2 LONGUEUIL QUEBEC J4K 1K8 GENERAL FREIGHT.	<b>080966170</b> Original

<b>LES ENTREPRISES MARIDEY INC</b> 19005 ST LOUIS ST HYACINTHE PQ J2S 8B1 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>085170341</b> Original	<b>TRANSPORT MIDEN INC</b> 120 PRESENTATION ST-PIE QC J0H 1W0 GENERAL FREIGHT.	<b>095871177</b> Original
<b>MCPHERSON BROS. INC.</b> 496 120TH AVENUE NORWALK IOWA, USA 50211 GENERAL FREIGHT.	<b>102282716</b> Original	<b>TRANSPORT 1508 INC</b> 1508 CHEMIN DU SAULT ST-ROMUALD QUEBEC G6W 2M3 GENERAL FREIGHT.	<b>097032297</b> Amend
<b>PSR ENTERPRISES INC</b> 824 NIGHTINGALE DEARBORN MI. USA 48128 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>102628074</b> Original	<b>119181 CANADA INC</b> 22 SONNY, RR#1 ST-SAUVEUR, QUEBEC J0R 1R0 GENERAL FREIGHT.	<b>084442826</b> Original
<b>PATRY, GILLES</b> 214 BEAULIEU ST MANIWAKI QUEBEC J9E 1B1 GENERAL FREIGHT.	<b>101516816</b> Original	<b>131392 CANADA LTEE</b> 476 WELLESLEY HAWKESBURY ONT. K6A 2G1 GENERAL FREIGHT.	<b>091114187</b> Original
<b>PIERGIL TRANSPORT INC.</b> 64 9 IEME RUE MONTMAGNY QUEBEC G5V 3C9 GENERAL FREIGHT.	<b>100277760</b> Original	<b>157998 CANADA INC</b> 1500 ROUTE 343 VAUCLUSE QUE J0K 3P0 GENERAL FREIGHT.	<b>089476450</b> Original
<b>TILLEY, ROBIN, R</b> 45 POND MILLS RD AP210 LONDON, ONTARIO N6E 1L3 GENERAL FREIGHT.	<b>074921934</b> Original	<b>166707 CANADA INC.</b> 20 RUE ROW MATAGAMIE QUE J0Y 2A0 GENERAL FREIGHT.	<b>102028695</b> Original
<b>TRANSPORT ANDRE TURCOTTE INC</b> 137 RUE DES PRES VERTS ST HENRI DE LEVIS G0R 3E0 GENERAL FREIGHT.	<b>099287818</b> Original	<b>2166-0691 QUEBEC INC.</b> 196 QUINN LA PLAINE QUE J0N 1B0 GENERAL FREIGHT.	<b>102390819</b> Original
<b>TRANSPORT FPRL INC</b> 5545 RUE LAFLAMME TROIS RIVIERES QUEBEC G8Y 6L2 GENERAL FREIGHT.	<b>090737669</b> Original	<b>2330-7887 QUEBEC INC</b> 62 PRATIE TROIS RIVIERES OUEST QUEBEC G9B 1H3 GENERAL FREIGHT.	<b>085674518</b> Original
<b>TRANSPORT HENDY INC</b> 220 PRINCIPALE ST LUC QUEBEC G0R 1L0 GENERAL FREIGHT.	<b>087320380</b> Original	<b>2428-4671 QUEBEC INC.</b> 4254 43E RUE ST MICHEL MONTREAL QUEBEC H1Z 1R6 GENERAL FREIGHT.	<b>092921419</b> Original
<b>TRANSPORT JEAN-LUC CARRIER INC.</b> 1460 DES PINS VAL D OR QC J9P 5K8 GENERAL FREIGHT.	<b>093996335</b> Amend	<b>2754-1572 QUEBEC INC.</b> 44 RUE PRINCIPALE ST-JUSTE DU LAC QUEBEC G0L 3R0 GENERAL FREIGHT.	<b>102388965</b> Original
		<b>705009 ONTARIO INC</b> 177 UNION ST BOX 323 BELMONT, ONTARIO N0L 1B0 GENERAL FREIGHT.	<b>096710251</b> Original



**715231 ONTARIO INC.**  
L7 PLAN-1026 TP OF W NISSOURI  
THORNDALÉ, ONTARIO  
N0M 2P0  
GENERAL FREIGHT; TANK.

**102384131**  
**Original**

**BAINESTEE INCORPORATED**  
8050 WOODBINE AVE  
MARKHAM, ONTARIO  
L3R 2N8  
GENERAL FREIGHT.

**034879223**  
**Original**

**809298 ONTARIO INC.**  
845 CARTIER BLVD  
HAWKESBURY, ONTARIO  
K6A 1W9  
GENERAL FREIGHT.

**102379759**  
**Original**

**BERNER, DENNIS, T**  
L15 C2 SAUGEEN TP  
PAISLEY R5, ONTARIO  
N0G 2N0  
OWNER DRIVER, exempt from Public Interest  
Test; GENERAL FREIGHT.

**031126809**  
**Original**

**834241 ONTARIO LTD**  
L11 C1 CALEDON  
CALEDON R2, ONTARIO  
L0N 1C0  
GENERAL FREIGHT.

**099512067**  
**Original**

**BRIDGE, DONALD, W**  
23 OAKWOOD AVE BX38  
CAPREOL, ONTARIO  
P0M 1H0  
GENERAL FREIGHT.

**058276246**  
**Original**

**853391 ONTARIO LIMITED**  
L1 C4 NORWICH TP  
WOODSTOCK RR8, ONTARIO  
N4S 7W3  
GENERAL FREIGHT; TANK.

**102408483**  
**Original**

**BROOK, LORNE, H**  
L20 C1 ALBION BX34  
CALEDON EAST R3, ONTARIO  
L0N 1E0  
GENERAL FREIGHT.

**004234747**  
**Amend**

**ONTARIO/QUEBEC, ONTARIO/USA BORDER  
CROSSINGS:**

**LIBERTY EXPRESS INC.**  
3194-15th AVE BLVD SE  
CONOVER NC, USA  
28615  
GENERAL FREIGHT.

**101954527**  
**Original**

**BURGHIER, PERCIVAL, H**  
105 BRAYMORE BLVD  
SCARBOROUGH, ONTARIO  
M1B 2N6  
GENERAL FREIGHT.

**000426336**  
**Original**

**BUTLER, BRADLEY, R**  
21 GRAND RAPIDS SQ  
BRAMPTON, ONTARIO  
L6S 2J1

**027471079**  
**Original**

OWNER DRIVER, exempt from Public Interest  
Test; GENERAL FREIGHT.

**BUUCK, WAYNE, NORMAN**  
41 MODERNWELL ST  
STRATFORD, ONTARIO  
N5A 1T6  
GENERAL FREIGHT.

**027475183**  
**Amend**

**CHABOT, DONALD**  
132 MELROSE AV BX241  
MATTICE, ONTARIO  
P0L 1T0  
GENERAL FREIGHT; TANK.

**015980288**  
**Amend**

**DALE FARREN AND  
SON TRENCHING LTD**  
L20 C2 KING TWP  
KING CITY RR3, ONTARIO  
L0G 1K0  
GENERAL FREIGHT; TANK.

**075889104**  
**Amend**

**ANSTEAD, EDWARD, JOHN**  
L6 C6 AUGUSTA TWP  
SPENCERVILLE RR2, ONTARIO  
K0E 1X0  
SINGLE SOURCE; GENERAL FREIGHT.

**019377177**  
**Original**

**DAVIS, J,V, GLEN**  
L7 C8 RR1 ENNISMORE TP  
ENNISMORE, ONTARIO  
K0L 1T0  
GENERAL FREIGHT.

**031672384**  
**Amend**

## TRUCK TRANSPORTATION ACT, 1988 LOI DE 1988 SUR LE CAMIONNAGE

The following are applications for operating licences under the Truck Transportation Act, 1988, S.O. 1988, Chapter 64. These Applicants have been found to meet the fitness requirements pursuant to section 6 of that Act and the Registrar of Motor Vehicles proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test pursuant to subsection 7(4) of the Act.

The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:

DAVIS, TREVOR, A 7023 CHIGWELL CRT MISSISSAUGA, ONTARIO L4T 1N3 GENERAL FREIGHT.	023953194 Original	J M MCGEE ENTERPRISES LTD 46 PLOWMAN DR AJAX, ONTARIO L1S 6R9 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (10401) AJAX T.	082499939 Original
DEWEY, STEPHEN, J 4288 LAKESHORE RD BEAMSVILLE, ONTARIO L0R 1B0 GENERAL FREIGHT; TANK.	039459426 Original	JAY, DAVID, R 120 QUIGLEY RD UN5 HAMILTON, ONTARIO L8K 6L4 OWNER DRIVER, exempt from Public Interest Test.	073832386 Original
DON JAMES & SONS SAND GRAVEL & EXCAVATING LTD. L10 C3 EMILY TWP BOX220 OMEMEE, ONTARIO K0L 2W0 GENERAL FREIGHT.	054949976 Original	JURCIC, MARA 369 HEMLOCK AV STONEY CREEK, ONTARIO L8E 2C9 GENERAL FREIGHT.	076488005 Original
FERRANTE, RICHARD, A L1 C13 BETHUNE TP BOX 22 EMSDALE, ONTARIO P0A 1J0 GENERAL FREIGHT.	020371139 Amend	LAURMART TRANSPORT INC. LOT16 CON2 USBORNE TWP R3 EXETER, ONTARIO N0M 1S5 GENERAL FREIGHT; TANK.	099116937 Original
FITZGERALD, JAMES, P L4 C8 N CROSBY WESTPORT R2, ONTARIO K0G 1X0 GENERAL FREIGHT.	004949998 Original	LOVCO LTD L2 C1 MOULTON TP DUNNVILLE R1, ONTARIO N1A 2W1 GENERAL FREIGHT.	059940252 Amend
FRANK KELLY & SONS GARAGE LIMITED L12 C1 LOGAN BX158 MITCHELL R3, ONTARIO N0K 1N0 GENERAL FREIGHT.	055189526 Original	MAINPRIZE, MURRAY, A 53 SUNNIDALE BL JACKSONS POINT, ONTARIO L0E 1L0 GENERAL FREIGHT.	032986672 Original
GAUDREAULT, ROMEO L7 C3 WAY TP BX2548 HEARST, ONTARIO P0L 1N0 GENERAL FREIGHT.	012780040 Original	MALCOLM, ROBERT, B L2 C4 MARIPOSA TP. MANILLA (VICTORIA), ONTARIO K0M 2J0 GENERAL FREIGHT.	036853633 Amend
GRAHAM, ROCKY, A L35 C6 GLAMORGAN BX163 GOODERHAM, ONTARIO K0M 1R0 HEAVY & SPECIALIZED.	032185254 Amend	MCGREGOR, ROBERT, C 18 KITCHENER ST BX 2509 ORILLIA, ONTARIO L3V 7A3 GENERAL FREIGHT.	048573073 Original
HAUL-A-WAY EQUIPMENT LTD. 9 ROXANNE CRESCENT SCARBOROUGH, ONTARIO M1V 3X2 GENERAL FREIGHT; TANK.	085177213 Original	MINIGAN, GREGORY, A L6 C7 EMMOSA TP ROCKWOOD R4, ONTARIO N0B 2K0 GENERAL FREIGHT; TANK.	064132403 Original
HERNIMAN, LEO, ROBERT 282 SEACLIFFE DR W LEAMINGTON, ONTARIO N8H 4C8 GENERAL FREIGHT.	040080689 Amend	MITCHELL & SONS EXCAVATING INC. L2-3 C SNYDERS RD N PETERSBURG RR2, ONTARIO N0B 2M0 GENERAL FREIGHT; TANK.	102383828 Original



<b>MONTGOMERY, LYLE</b> 155 JAMES ST CLINTON R3, ONTARIO N0M 1L0 GENERAL FREIGHT; TANK.	<b>017828852</b> Original	<b>TAYLOR, GARY, B</b> 35 ANN ST. N. CANNINGTON (DURHAM), Ontario L0E 1E0 SINGLE SOURCE; GENERAL FREIGHT.	<b>030357097</b> Original
<b>MOONEY BROS FUELS LTD</b> 1702 2-AV E OWEN SOUND, ONTARIO N4K 2J7 GENERAL FREIGHT; TANK.	<b>021692719</b> Original	<b>TERSIGNI, ROCCO</b> 44 DONNA DR BRAMPTON, ONTARIO L6Z 3V2 GENERAL FREIGHT.	<b>068029661</b> Original
<b>MYLES, MERVIN, L</b> L20 C3 WBR EASTNOR TP LIONS HEAD R1, ONTARIO N0H 1W0 SINGLE SOURCE; GENERAL FREIGHT.	<b>081368376</b> Original	<b>TOMIC, IVAN</b> 52 HIXON RD HAMILTON, ONTARIO L8K 2B7 SINGLE SOURCE; GENERAL FREIGHT.	<b>061310519</b> Original
<b>PALMER, MALCOLM, JOHN</b> 44 PARKS ST RIPLEY, ONTARIO N0G 2R0 GENERAL FREIGHT.	<b>048920235</b> Original	<b>TONIN, EUGENIO</b> L8 C6 CASIMIR TWP ST CHARLES RR1, ONTARIO P0M 2W0 SINGLE SOURCE; GENERAL FREIGHT.	<b>045869573</b> Amend
<b>PRIOR, DANIEL, J</b> L4 C1 NICHOL TP ELORA R2, ONTARIO N0B 1S0 GENERAL FREIGHT.	<b>076185713</b> Original	<b>TRAFFORD CRANE LTD</b> 36 CULTRA SQ WEST HILL, ONTARIO M1E 2E2 GENERAL FREIGHT.	<b>073119199</b> Original
<b>RAYMOND PROVOST CARTAGE CO LTD</b> 4 PLEASANT ST CRYSLER, ONTARIO K0A 1R0 GENERAL FREIGHT.	<b>022114628</b> Amend	<b>VANDAMME, ALBERT</b> L16 C4 CHATHAM WALLACEBURG R5, ONTARIO N8A 4L2 GENERAL FREIGHT.	<b>007331786</b> Original
<b>RICHARDSON AND ROY TRUCKING LTD.</b> 1115 DOMINION DR HANMER, ONTARIO P0M 1Y0 GENERAL FREIGHT.	<b>102185688</b> Original	<b>WALLACE, GORDON, W</b> L12 C3 CARTWRIGHT TP BLACKSTOCK R2, ONTARIO L0B 1B0 GENERAL FREIGHT.	<b>011270496</b> Original
<b>RODRIGUES, MIGUEL, J</b> 420 NORTH MARKS ST APT5 THUNDER BAY, ONTARIO P7C 5A6 GENERAL FREIGHT.	<b>069235282</b> Amend	<b>WISEMAN, BARRY, DENNIS</b> U-28 534 ST CLAIR ST CHATHAM, ONTARIO N7L 5C1 GENERAL FREIGHT.	<b>067444312</b> Original
<b>ROSS, CLIFFORD</b> L31 C9 KING TP SCHOMBERG (YORK) R1, ONTARIO L0G 1T0 GENERAL FREIGHT.	<b>049259910</b> Original	<b>310213 ONTARIO LTD</b> 439 S BROCK ST SARNIA, ONTARIO N7T 2H2 GENERAL FREIGHT.	<b>058708791</b> Original
<b>SILBURN SCOTT HAULAGE INC.</b> 7 HOLFORD CR AGINCOURT, ONTARIO M1T 1L9 GENERAL FREIGHT.	<b>098305763</b> Original	<b>877123 ONTARIO LIMITED</b> 101 KENTLEY DR HAMILTON, ONTARIO L8E 1A5 GENERAL FREIGHT.	<b>101495122</b> Original

**894553 ONTARIO LTD.**  
L30 C7 ELLICE TP  
SEBRINGVILLE, ONTARIO  
N0K 1X0  
GENERAL FREIGHT; TANK.

**102383527**  
**Original**

The following applicants have applied for Authority to offer a transportation service as detailed below between specific geographic areas:

**DONNAN, JOHN, E** **051090166**  
L21 C2 ADOLPHUSTOWN TP **Original**  
NAPANEE R2, ONTARIO  
K7R 3K7  
ROAD CONSTRUCTION MATERIALS,  
restricted to 1 vehicle, (46000) FRONTENAC CO,  
(51000) HASTINGS CO, (55000) LANARK CO,  
(56000) LEEDS & GRENVILLE CO, (57000)  
LENNOX AND ADDINGTON CO, (20000)  
OTTAWA-CARLETON R, (67000) PRESCOTT  
AND RUSSELL CO, (68000) PRINCE  
EDWARD CO, (69000) RENFREW CO, (71000)  
STORMONT, DUNDAS, GLENGARRY CO.

Michael T. Curtin,  
Manager.

#### REWRITE APPLICATION:

Notice is hereby given that a rewritten certificate of public necessity and convenience has been issued under the Public Commercial Vehicles Act, R.S.O. 1980, Chapter 407, Section 10b and the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35, in respect of the following licence and operating licence:

Hill Top Nurseries & Landscaping Ltd. D 3364,  
R 1078

Persons who are not parties to this application may, within sixty days of the date of this notice, file written submissions with the Ontario Highway Transport Board with respect to the rewritten certificate.

## MOTOR VEHICLE TRANSPORT ACT, 1987

### PUBLIC VEHICLES ACT

#### BUS APPLICATIONS:

The following application for an operating licence under Part I of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35, or the Public Vehicles Act R.S.O. 1980, Chapter 425 is published pursuant to Section 8, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board Act, R.S.O. 1980, Chapter 338. Section 8 provides that the Board may dispose of this application summarily if no objection is served and filed in the prescribed manner within twenty-nine days of this publication.

#### MOTOR VEHICLE TRANSPORT ACT, 1987, PART I APPLICATION:

**Cape Transit Corp.** **40285**  
Wellington Avenue  
Ventnor, New Jersey  
U.S.A.

applies for an extra-provincial operating licence as follows:

"For the transportation of passengers on a chartered trip from points in the United States of America from the Ontario/U.S.A. Border Crossings:

1. to points in Ontario.
2. in transit through Ontario to the Ontario/Quebec border crossings for furtherance

and return of same passengers on the same chartered trip to point of origin.

The following application for an operating licence under The Public Vehicles Act, R.S.O. 1980, Chapter 425, is published pursuant to Section 3, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board, R.S.O. 1980, Chapter 338. The application published in the Ontario Gazette of April 28th was heard on July 24th and 25th, 1990 and will continue on Thursday the 30th day of August, 1990 at the Board's Chambers, Britannica House, 151 Bloor Street West, 10th Floor, Toronto, Ontario, at 10:00 a.m.

**736215 Ontario Limited** **44258-A**  
839 Erskine Avenue  
Peterborough, Ontario.  
K9J 5V1

applies for an extension to public vehicle operating licence No. PV 3283 as follows:

#### DELETE:

"For the transportation of passengers, baggage and express freight, having prior or subsequent movement by air, between the City of Peterborough, Town of Lindsay, Villages of Lakefield, Omemee, Millbrook, Norwood, points in the Townships of Cavan, Dummer, Smith, Emily, Manvers, Ops, South Monaghan, North Monaghan, Douro, Ennismore and Otonabee, and a place known as Bewdley in the Township of Hamilton on the one hand and the Lester B. Pearson International Airport and hotels with installations on Dixon Road in Mississauga on the other hand, with no pick-up or discharge privileges other than at points named herein;

PROVIDED THAT under any public vehicle operating licence issued pursuant to this certificate; (a) the licensee be restricted to public vehicles having a maximum capacity of twelve passengers exclusive of the driver, (b) charter trips be prohibited.

#### SUBSTITUTE:

For the transportation of passengers, baggage and express freight, having prior or subsequent movement by air, between the Counties of Peterborough and Victoria on the one hand and the Lester B.



maximum seating capacity of fifteen passengers exclusive of the driver.

PROVIDED FURTHER that under this authority charter trips be prohibited from the Lester B. Pearson International Airport, Metropolitan Toronto and Mississauga.

### TARIFF OF TOLLS:

This replaces terms that appeared in the Ontario Gazette dated April 28th, 1990.



Ministry  
of  
Transportation

CARRIER LICENSING OFFICE  
1201 WILSON AVE  
MAIN FLOOR, EAST BUILDING  
DOWNSVIEW, ONTARIO  
M3M 1J8

PURSUANT TO SECTION 18 OF THE PUBLIC VEHICLE ACT SUBMITTED HERewith IN  
TRIPPLICATE, FOR THE APPROVAL OF THE MINISTRY, S & TARIFF OF TOL S PROPOSED FOR  
THE PUBLIC VEHICLE SERVICE OPERATED

BY 736215 ONTARIO LIMITED 3/4 Century Building  
POINTS LISTED BELOW  
BETWEEN IN VICTORIA COUNTY AND 10-11-1911

PROPOSED EFFECTIVE DATE 12/11/2017 4 SIGNATURE

## TARIFF OF TOLLS

Opposite "S" in each space enter the way fare proposed.

Opposite "R" in each space enter the fare proposed.

In the columns headed "From" and "To" enter names of stopping places or fare divisions in the order in which they are located on route.

In the column headed "Distance" enter the distance in kilometers between each stopping place or fare division.

In the space provided for "Spec. of Fare" enter "Rates" for trip or back tickets and "school" or children's fares, if any.

TO	FROM	DISTANCE										
PORTYPOOL			\$49.50	S	S	S	S	S	S	S	S	S
			R49.50	R	R	R	R	R	R	R	R	R
WOODVILLE				\$55.00	S	S	S	S	S	S	S	S
				R55.00	R	R	R	R	R	R	R	R
FANGLON FALLS					\$60.00	S	S	S	S	S	S	S
					R60.00	R	R	R	R	R	R	R
BOREYACON						\$75.00	S	S	S	S	S	S
						R75.00	R	R	R	R	R	R
KIRKFIELD							\$85.00	S	S	S	S	S
							R85.00	R	R	R	R	R
BURNI RIVER								\$85.00	S	S	S	S
								R85.00	R	R	R	R
CORWONK												
* Add \$15.00												
* Add \$10.00												

SPECIAL FARES  
 to single fare for 2 people  
 12 \$5.00/person 70% comp.  
 12 \$10.00/person more for every passenger after two  
 traveling in a group  
 12 \$10.00/person 70% comp. etc.  
 12 \$10.00/person 70% comp. etc.

68-1474 87-06



Ontario

Ministry of  
Transportation and  
Communications

HIGHWAY CARRIER LICENSING OFFICE  
1201 WILSON AVE.  
MAIN FLOOR, EAST BUILDING  
DOWNSVIEW, ONTARIO  
M3M 1J8

PURSUANT TO SECTION 18 OF THE PUBLIC VEHICLE ACT SUBMITTED HERewith IN  
TRIPPLICATE, FOR THE APPROVAL OF THE MINISTRY, IS A TARIFF OF TOLLS PROPOSED FOR  
THE PUBLIC VEHICLE SERVICE OPERATED.

BY CENTURY AIRLINE SERVICE (ALBERT G. RIEL)

BETWEEN LISTED BELOW AND PEARSON AIRPORT

PROPOSED EFFECTIVE DATE OCT 17 1989 SIGNATURE [Signature]

RECEIVED

TARIFF OF TOLLS

PROVINCIAL  
TRANSPORT BOARD

## NOTE -

Opposite "S" in each space enter the starting or one way fare proposed.

Opposite "R" in each space enter the return fare proposed.

In the columns headed "From" and "To" enter names of stopping places or fare divisions in the order in which they are located on your route.

In the column headed "Distance" enter the distance in Kilometers between each stopping or fare division.

In the space provided for "Special Fares" enter "Rates" for trip or book tickets and school or children's fares, if any.

TO	FROM	DISTANCE	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R
	PEARSON AIRPORT																			
PETERBOROUGH			S 38.50 R 38.50	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R
LAKEFIELD, OMEHA, DOURO, ENNISHMORE, BENDLEY, OTTAWA			S 49.50 R 49.50	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R
BRIDGENORTH, MILLBROOK, CAVAN, SMITH, EMILY, N.E.S. MONAGHAN,			S 44.00 R 44.00	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R
KEENE, SELWYN			S 55.00 R 55.00	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R
SPECIAL FARES																				
LINDSAY			S 40.00 R 40.00	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R	S R
PETERSBORO	1-7 95.00 8-10 130.00	PRIVATE VANS	S 95.00 R 95.00	S 180.00 R 130.00																
LAKEFIELD, OMEHA, DOURO, ENNISHMORE, BENDLEY, OTTAWA	1-7 105.00 8-10 140.00																			
KEENE, SELWYN	1-7 110.00 8-10 145.00																			
BRIDGENORTH, MILLBROOK, CAVAN, SMITH, EMILY, N.E.S. MONAGHAN,	1-7 100.00 8-10 135.00																			

SR-LH-74 83-06 (Formerly NV-11A)

LINDSAY 1-7 97.50  
8-10 132.50





Ministry of  
Transportation and  
Communications  
Ontario  
EAST BUILDING,  
1201 WILSON AVE.,  
DOWNSVIEW, ONTARIO,  
M3M 1J8

TARIFF OF CHARTERED TRIP RATES  
(Section 18 Public Vehicles Act)

NOTE: (1) Submit 3 copies of Tariff and separate Tariff for each class of vehicle.  
(2) Column 1 refers to Equipment and Service Points. Column 2 refers to other points which are not protected by virtue of  
(a) these points are not authorized in your operating licence,  
(b) these points include deadhead charges in the origination of the charter,  
(c) linehaul charges from these points are greater than linehaul charges from the nearest Equipment Point.  
(3) Separate tariff form is required when line 1 - column 1 charges are not authorized in your operating licence, and when column 2 charges are not authorized in your operating licence.  
(4) Deadhead charges for services involving drop-off and subsequent pick-up are to be listed under supplementary charges.

TARIFF FOR CLASS A B C D VEHICLE  
(CIRCLE APPROPRIATE CLASS)

NAME OF OPERATOR 736215 Ontario Provincial Board  
DATE 12/1/80 AUTHORIZED SIGNATURE: Carol Dineen

FARE OR CHARGE COMPONENTS	(i) SEATING CAP. 8		SEATING CAP. 15		SEATING CAP. 20		SEATING CAP. 25		SEATING CAP. 30		SEATING CAP. 35		SEATING CAP. 40		SEATING CAP. 45		SEATING CAP. 50		SEATING CAP. 55		SEATING CAP. 60		SEATING CAP. 65		SEATING CAP. 70		SEATING CAP. 75		SEATING CAP. 80		SEATING CAP. 85		SEATING CAP. 90		SEATING CAP. 95		SEATING CAP. 100		SEATING CAP. 105		SEATING CAP. 110		SEATING CAP. 115		SEATING CAP. 120		SEATING CAP. 125		SEATING CAP. 130		SEATING CAP. 135		SEATING CAP. 140		SEATING CAP. 145		SEATING CAP. 150		SEATING CAP. 155		SEATING CAP. 160		SEATING CAP. 165		SEATING CAP. 170		SEATING CAP. 175		SEATING CAP. 180		SEATING CAP. 185		SEATING CAP. 190		SEATING CAP. 195		SEATING CAP. 200		SEATING CAP. 205		SEATING CAP. 210		SEATING CAP. 215		SEATING CAP. 220		SEATING CAP. 225		SEATING CAP. 230		SEATING CAP. 235		SEATING CAP. 240		SEATING CAP. 245		SEATING CAP. 250		SEATING CAP. 255		SEATING CAP. 260		SEATING CAP. 265		SEATING CAP. 270		SEATING CAP. 275		SEATING CAP. 280		SEATING CAP. 285		SEATING CAP. 290		SEATING CAP. 295		SEATING CAP. 300		SEATING CAP. 305		SEATING CAP. 310		SEATING CAP. 315		SEATING CAP. 320		SEATING CAP. 325		SEATING CAP. 330		SEATING CAP. 335		SEATING CAP. 340		SEATING CAP. 345		SEATING CAP. 350		SEATING CAP. 355		SEATING CAP. 360		SEATING CAP. 365		SEATING CAP. 370		SEATING CAP. 375		SEATING CAP. 380		SEATING CAP. 385		SEATING CAP. 390		SEATING CAP. 395		SEATING CAP. 400		SEATING CAP. 405		SEATING CAP. 410		SEATING CAP. 415		SEATING CAP. 420		SEATING CAP. 425		SEATING CAP. 430		SEATING CAP. 435		SEATING CAP. 440		SEATING CAP. 445		SEATING CAP. 450		SEATING CAP. 455		SEATING CAP. 460		SEATING CAP. 465		SEATING CAP. 470		SEATING CAP. 475		SEATING CAP. 480		SEATING CAP. 485		SEATING CAP. 490		SEATING CAP. 495		SEATING CAP. 500		SEATING CAP. 505		SEATING CAP. 510		SEATING CAP. 515		SEATING CAP. 520		SEATING CAP. 525		SEATING CAP. 530		SEATING CAP. 535		SEATING CAP. 540		SEATING CAP. 545		SEATING CAP. 550		SEATING CAP. 555		SEATING CAP. 560		SEATING CAP. 565		SEATING CAP. 570		SEATING CAP. 575		SEATING CAP. 580		SEATING CAP. 585		SEATING CAP. 590		SEATING CAP. 595		SEATING CAP. 600		SEATING CAP. 605		SEATING CAP. 610		SEATING CAP. 615		SEATING CAP. 620		SEATING CAP. 625		SEATING CAP. 630		SEATING CAP. 635		SEATING CAP. 640		SEATING CAP. 645		SEATING CAP. 650		SEATING CAP. 655		SEATING CAP. 660		SEATING CAP. 665		SEATING CAP. 670		SEATING CAP. 675		SEATING CAP. 680		SEATING CAP. 685		SEATING CAP. 690		SEATING CAP. 695		SEATING CAP. 700		SEATING CAP. 705		SEATING CAP. 710		SEATING CAP. 715		SEATING CAP. 720		SEATING CAP. 725		SEATING CAP. 730		SEATING CAP. 735		SEATING CAP. 740		SEATING CAP. 745		SEATING CAP. 750		SEATING CAP. 755		SEATING CAP. 760		SEATING CAP. 765		SEATING CAP. 770		SEATING CAP. 775		SEATING CAP. 780		SEATING CAP. 785		SEATING CAP. 790		SEATING CAP. 795		SEATING CAP. 800		SEATING CAP. 805		SEATING CAP. 810		SEATING CAP. 815		SEATING CAP. 820		SEATING CAP. 825		SEATING CAP. 830		SEATING CAP. 835		SEATING CAP. 840		SEATING CAP. 845		SEATING CAP. 850		SEATING CAP. 855		SEATING CAP. 860		SEATING CAP. 865		SEATING CAP. 870		SEATING CAP. 875		SEATING CAP. 880		SEATING CAP. 885		SEATING CAP. 890		SEATING CAP. 895		SEATING CAP. 900		SEATING CAP. 905		SEATING CAP. 910		SEATING CAP. 915		SEATING CAP. 920		SEATING CAP. 925		SEATING CAP. 930		SEATING CAP. 935		SEATING CAP. 940		SEATING CAP. 945		SEATING CAP. 950		SEATING CAP. 955		SEATING CAP. 960		SEATING CAP. 965		SEATING CAP. 970		SEATING CAP. 975		SEATING CAP. 980		SEATING CAP. 985		SEATING CAP. 990		SEATING CAP. 995		SEATING CAP. 1000		SEATING CAP. 1005		SEATING CAP. 1010		SEATING CAP. 1015		SEATING CAP. 1020		SEATING CAP. 1025		SEATING CAP. 1030		SEATING CAP. 1035		SEATING CAP. 1040		SEATING CAP. 1045		SEATING CAP. 1050		SEATING CAP. 1055		SEATING CAP. 1060		SEATING CAP. 1065		SEATING CAP. 1070		SEATING CAP. 1075		SEATING CAP. 1080		SEATING CAP. 1085		SEATING CAP. 1090		SEATING CAP. 1095		SEATING CAP. 1100		SEATING CAP. 1105		SEATING CAP. 1110		SEATING CAP. 1115		SEATING CAP. 1120		SEATING CAP. 1125		SEATING CAP. 1130		SEATING CAP. 1135		SEATING CAP. 1140		SEATING CAP. 1145		SEATING CAP. 1150		SEATING CAP. 1155		SEATING CAP. 1160		SEATING CAP. 1165		SEATING CAP. 1170		SEATING CAP. 1175		SEATING CAP. 1180		SEATING CAP. 1185		SEATING CAP. 1190		SEATING CAP. 1195		SEATING CAP. 1200		SEATING CAP. 1205		SEATING CAP. 1210		SEATING CAP. 1215		SEATING CAP. 1220		SEATING CAP. 1225		SEATING CAP. 1230		SEATING CAP. 1235		SEATING CAP. 1240		SEATING CAP. 1245		SEATING CAP. 1250		SEATING CAP. 1255		SEATING CAP. 1260		SEATING CAP. 1265		SEATING CAP. 1270		SEATING CAP. 1275		SEATING CAP. 1280		SEATING CAP. 1285		SEATING CAP. 1290		SEATING CAP. 1295		SEATING CAP. 1300		SEATING CAP. 1305		SEATING CAP. 1310		SEATING CAP. 1315		SEATING CAP. 1320		SEATING CAP. 1325		SEATING CAP. 1330		SEATING CAP. 1335		SEATING CAP. 1340		SEATING CAP. 1345		SEATING CAP. 1350		SEATING CAP. 1355		SEATING CAP. 1360		SEATING CAP. 1365		SEATING CAP. 1370		SEATING CAP. 1375		SEATING CAP. 1380		SEATING CAP. 1385		SEATING CAP. 1390		SEATING CAP. 1395		SEATING CAP. 1400		SEATING CAP. 1405		SEATING CAP. 1410		SEATING CAP. 1415		SEATING CAP. 1420		SEATING CAP. 1425		SEATING CAP. 1430		SEATING CAP. 1435		SEATING CAP. 1440		SEATING CAP. 1445		SEATING CAP. 1450		SEATING CAP. 1455		SEATING CAP. 1460		SEATING CAP. 1465		SEATING CAP. 1470		SEATING CAP. 1475		SEATING CAP. 1480		SEATING CAP. 1485		SEATING CAP. 1490		SEATING CAP. 1495		SEATING CAP. 1500		SEATING CAP. 1505		SEATING CAP. 1510		SEATING CAP. 1515		SEATING CAP. 1520		SEATING CAP. 1525		SEATING CAP. 1530		SEATING CAP. 1535		SEATING CAP. 1540		SEATING CAP. 1545		SEATING CAP. 1550		SEATING CAP. 1555		SEATING CAP. 1560		SEATING CAP. 1565		SEATING CAP. 1570		SEATING CAP. 1575		SEATING CAP. 1580		SEATING CAP. 1585		SEATING CAP. 1590		SEATING CAP. 1595		SEATING CAP. 1600		SEATING CAP. 1605		SEATING CAP. 1610		SEATING CAP. 1615		SEATING CAP. 1620		SEATING CAP. 1625		SEATING CAP. 1630		SEATING CAP. 1635		SEATING CAP. 1640		SEATING CAP. 1645		SEATING CAP. 1650		SEATING CAP. 1655		SEATING CAP. 1660		SEATING CAP. 1665		SEATING CAP. 1670		SEATING CAP. 1675		SEATING CAP. 1680		SEATING CAP. 1685		SEATING CAP. 1690		SEATING CAP. 1695		SEATING CAP. 1700		SEATING CAP. 1705		SEATING CAP. 1710		SEATING CAP. 1715		SEATING CAP. 1720		SEATING CAP. 1725		SEATING CAP. 1730		SEATING CAP. 1735		SEATING CAP. 1740		SEATING CAP. 1745		SEATING CAP. 1750		SEATING CAP. 1755		SEATING CAP. 1760		SEATING CAP. 1765		SEATING CAP. 1770		SEATING CAP. 1775		SEATING CAP. 1780		SEATING CAP. 1785		SEATING CAP. 1790		SEATING CAP. 1795		SEATING CAP. 1800		SEATING CAP. 1805		SEATING CAP. 1810		SEATING CAP. 1815		SEATING CAP. 1820		SEATING CAP. 1825		SEATING CAP. 1830		SEATING CAP. 1835		SEATING CAP. 1840		SEATING CAP. 1845		SEATING CAP. 1850		SEATING CAP. 1855		SEATING CAP. 1860		SEATING CAP. 1865		SEATING CAP. 1870		SEATING CAP. 1875		SEATING CAP. 1880		SEATING CAP. 1885		SEATING CAP. 1890		SEATING CAP. 1895		SEATING CAP. 1900		SEATING CAP. 1905		SEATING CAP. 1910		SEATING CAP. 1915		SEATING CAP. 1920		SEATING CAP. 1925		SEATING CAP. 1930		SEATING CAP. 1935		SEATING CAP. 1940		SEATING CAP. 1945		SEATING CAP. 1950		SEATING CAP. 1955		SEATING CAP. 1960		SEATING CAP. 1965		SEATING CAP. 1970		SEATING CAP. 1975		SEATING CAP. 1980		SEATING CAP. 1985		SEATING CAP. 1990		SEATING CAP. 1995		SEATING CAP. 2000		SEATING CAP. 2005		SEATING CAP. 2010		SEATING CAP. 2015		SEATING CAP. 2020		SEATING CAP. 2025		SEATING CAP. 2030		SEATING CAP. 2035		SEATING CAP. 2040		SEATING CAP. 2045		SEATING CAP. 2050		SEATING CAP. 2055		SEATING CAP. 2060		SEATING CAP. 2065		SEATING CAP. 2070		SEATING CAP. 2075		SEATING CAP. 2080		SEATING CAP. 2085		SEATING CAP. 2090		SEATING CAP. 2095		SEATING CAP. 2100		SEATING CAP. 2105		SEATING CAP. 2110		SEATING CAP. 2115		SEATING CAP. 2120		SEATING CAP. 2125		SEATING CAP. 2130		SEATING CAP. 2135		SEATING CAP. 2140		SEATING CAP. 2145		SEATING CAP. 2150		SEATING CAP. 2155		SEATING CAP. 2160		SEATING CAP. 2165		SEATING CAP. 2170		SEATING CAP. 2175		SEATING CAP. 2180		SEATING CAP. 2185		SEATING CAP. 2190		SEATING CAP. 2195		SEATING CAP. 2200		SEATING CAP. 2205		SEATING CAP. 2210		SEATING CAP. 2215		SEATING CAP. 2220		SEATING CAP. 2225		SEATING CAP. 2230		SEATING CAP. 2235		SEATING CAP. 2240		SEATING CAP. 2245		SEATING CAP. 2250		SEATING CAP. 2255		SEATING CAP. 2260		SEATING CAP. 2265		SEATING CAP. 2270		SEATING CAP. 2275		SEATING CAP. 2280		SEATING CAP. 2285		SEATING CAP. 2290		SEATING CAP. 2295		SEATING CAP. 2300		SEATING CAP. 2305		SEATING CAP. 2310		SEATING CAP. 2315		SEATING CAP. 2320		SEATING CAP. 2325		SEATING CAP. 2330		SEATING CAP. 2335		SEATING CAP. 2340		SEATING CAP. 2345		SEATING CAP. 2350		SEATING CAP. 2355		SEATING CAP. 2360		SEATING CAP. 2365		SEATING CAP. 2370		SEATING CAP. 2375		SEATING CAP. 2380		SEATING CAP. 2385		SEATING CAP. 2390		SEATING CAP. 2395		SEATING CAP. 2400		SEATING CAP. 2405		SEATING CAP. 2410		SEATING CAP. 2415		SEATING CAP. 2420		SEATING CAP. 2425		SEATING CAP. 2430		SEATING CAP. 2435		SEATING CAP. 2440		SEATING CAP. 2445		SEATING CAP. 2450		SEATING CAP. 2455		SEATING CAP. 2460		SEATING CAP. 2465		SEATING CAP. 2470		SEATING CAP. 2475		SEATING CAP. 2480		SEATING CAP. 2485		SEATING CAP. 2490		SEATING CAP. 2495		SEATING CAP. 2500		SEATING CAP. 2505		SEATING CAP. 2510		SEATING CAP. 2515		SEATING CAP. 2520		SEATING CAP. 2525		SEATING CAP. 2530		SEATING CAP. 2535		SEATING CAP. 2540		SEATING CAP. 2545		SEATING CAP. 2550		SEATING CAP. 2555		SEATING CAP. 2560		SEATING CAP. 2565		SEATING CAP. 2570		SEATING CAP. 2575		SEATING CAP. 2580		SEATING CAP. 2585		SEATING CAP. 2590		SEATING CAP. 2595		SEATING CAP. 2600		SEATING CAP. 2605		SEATING CAP. 2610		SEATING CAP. 2615		SEATING CAP. 2620		SEATING CAP. 2625		SEATING CAP. 2630		SEATING CAP. 2635		SEATING CAP. 2640		SEATING CAP. 2645		SEATING CAP. 2650		SEATING CAP. 2655		SEATING CAP. 2660		SEATING CAP. 2665		SEATING CAP. 2670		SEATING CAP. 2675		SEATING CAP. 2680		SEATING CAP. 2685		SEATING CAP. 2690		SEATING CAP. 2695		SEATING CAP. 2700		SEATING CAP. 2705		SEATING CAP. 2710		SEATING CAP. 2715		SEATING CAP. 2720		SEATING CAP. 2725		SEATING CAP. 2730		SEATING CAP. 2735		SEATING CAP. 2740		SEATING CAP. 2745		SEATING CAP. 2750		SEATING CAP. 2755		SEATING CAP. 2760		SEATING CAP. 2765		SEATING CAP. 2770		SEATING CAP. 2775		SEATING CAP. 2780		SEATING CAP. 2785		SEATING CAP. 2790		SEATING CAP. 2795		SEATING CAP. 2800		SEATING CAP. 2805		SEATING CAP. 2810		SEATING CAP. 2815		SEATING CAP. 2820		SEATING CAP. 2825		SEATING CAP. 2830		SEATING CAP. 2835		SEATING CAP. 2840		SEATING CAP. 2845		SEATING CAP. 2850		SEATING CAP. 2855		SEATING CAP. 2860		SEATING CAP. 2865		SEATING CAP. 2870		SEATING CAP. 2875		SEATING CAP. 2880		SEATING CAP. 2885		SEATING CAP. 2890		SEATING CAP. 2895		SEATING CAP. 2900		SEATING CAP. 2905		SEATING CAP. 2910		SEATING CAP. 2915		SEATING CAP. 2920		SEATING CAP. 2925		SEATING CAP. 2930		SEATING CAP. 2935		SEATING CAP. 2940		SEATING CAP. 2945		SEATING CAP. 2950		SEATING CAP. 2955		SEATING CAP. 2960		SEATING CAP. 2965		SEATING CAP. 2970		SEATING CAP. 2975		SEATING CAP. 2980		SEATING CAP. 2985		SEATING CAP. 2990		SEATING CAP. 2995		SEATING CAP. 3000		SEATING CAP. 3005		SEATING CAP. 3010		SEATING CAP. 3015		SEATING CAP. 3020		SEATING CAP. 3025		SEATING CAP. 3030		SEATING CAP. 3035		SEATING CAP. 3040		SEATING CAP. 3045		SEATING CAP. 3050		SEATING CAP. 3055		SEATING CAP. 3060		SEATING CAP. 3065		SEATING CAP. 3070		SEATING CAP. 3075		SEATING CAP. 3080		SEATING CAP. 3085		SEATING CAP. 3090		SEATING CAP. 3095		SEATING CAP. 3100		SEATING CAP. 3105		SEATING CAP. 3110		SEATING CAP. 3115		SEATING CAP. 3120		SEATING CAP. 3125		SEATING CAP. 3130		SEATING CAP. 3135		SEATING CAP. 3140		SEATING CAP. 3145		SEATING CAP. 3150		SEATING CAP. 3155		SEATING CAP. 3160		SEATING CAP. 3165		SEATING CAP. 3170		SEATING CAP. 3175		SEATING CAP. 3180		SEATING CAP. 3185		SEATING CAP. 3190		SEATING CAP. 3195		SEATING CAP. 3200		SEATING CAP. 3205		SEATING CAP. 3210		SEATING CAP. 3215		SEATING CAP. 3220		SEATING CAP. 3225		SEATING CAP. 3230		SEATING CAP. 3235		SEATING CAP. 3240		SEATING CAP. 3245		SEATING CAP. 3250		SEATING CAP. 3255		SEATING CAP. 3260		SEATING CAP. 3265		SEATING CAP. 3270		SEATING CAP. 3275		SEATING CAP. 3280		SEATING CAP. 3285		SEATING CAP. 3290		SEATING CAP. 3295		SEATING CAP. 3300		SEATING CAP. 3305		SEATING CAP. 3310		SEATING CAP. 3315		SEATING CAP. 3320		SEATING CAP. 3325		SEATING CAP. 3330		SEATING CAP. 3335		SEATING CAP. 3340		SEATING CAP. 3345		SEATING CAP. 3350		SEATING CAP. 3355		SEATING CAP. 3360		SEATING CAP. 3365		SEATING CAP. 3370		SEATING CAP. 3375		SEATING CAP. 3380		SEATING CAP. 3385		SEATING CAP. 3390		SEATING CAP. 3395		SEATING CAP. 3400		SEATING CAP. 3405		SEATING CAP. 3410		SEATING CAP. 3415		SEATING CAP. 3420		SEATING CAP. 3425		SEATING CAP. 3430		SEATING CAP. 3435		SEATING CAP. 3440		SEATING CAP. 3445		SEATING CAP. 3450		SEATING CAP. 3455		SEATING CAP. 3460		SEATING CAP. 3465		SEATING CAP. 3470		SEATING CAP. 3475		SEATING CAP. 3480		SEATING CAP. 3485		SEATING CAP. 3490		SEATING CAP. 3495		SEATING CAP. 3500		SEATING CAP. 3505		SEATING CAP. 3510		SEATING CAP. 3515		SEATING CAP. 3520		SEATING CAP. 3525		SEATING CAP. 3530		SEATING CAP. 3535		SEATING CAP. 3540		SEATING CAP. 3545		SEATING CAP. 3550		SEATING CAP. 3555		SEATING CAP. 3560		SEATING CAP. 3565		SEATING CAP. 3570		SEATING CAP. 3575		SEATING CAP. 3580		SEATING CAP. 3585		SEATING CAP. 3590		SEATING CAP. 3595		SEATING CAP. 3600		SEATING CAP. 3605		SEATING CAP. 3610		SEATING CAP. 3615		SEATING CAP. 3620		SEATING CAP. 3625		SEATING CAP. 3630		SEATING CAP. 3635		SEATING CAP. 3640		SEATING CAP. 3645		SEATING CAP. 3650		SEATING CAP. 3655		SEATING CAP. 3660		SEATING CAP. 3665		SEATING CAP. 3670		SEATING CAP. 3675		SEATING CAP. 3680		SEATING CAP. 3685		SEATING CAP. 3690		SEATING CAP. 3695		SEATING CAP. 3700		SEATING CAP. 3705	
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## PUBLIC VEHICLES ACT

### BUS APPLICATIONS:

The following applications for an operating licence under the Public Vehicles Act R.S.O. 1980, Chapter 425 is published pursuant to Section 8, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board Act, R.S.O. 1980, Chapter 338. Section 8 provides that the Board may dispose of this application summarily if no objection is served and filed in the prescribed manner within twenty-nine days of this publication.

### PUBLIC VEHICLES ACT APPLICATION:

**B & G Bus Lines Inc.** 44351  
R. R. No. 2 Box 304  
Nepean, Ontario  
K2C.3H1

applies for transfer of public vehicle (school bus) Operating licence No. PVS-6756 from Wilfred Teal Limited, R. R. No. 2, Richmond, Ontario, K0A 2Z0.

**Bourgeault Bus lines Inc.** 44238-E  
125 Mill Road  
P. O. Box 456  
Chapleau, Ontario  
P0M 1K0

applies for transfer of shares as follows:

100 common shares of the capital stock of the company from Marcel Bourgeault to Laurent Lacroix, c/o Weaver, Simmons 30 Paris Street, Sudbury, Ontario.

50 common shares of the capital stock of the company from Marcel Bourgeault to Marcel Lacroix c/o Weaver, Simmons, 130 Paris Street, Sudbury, Ontario.

50 common shares of the capital stock of the company from Marcel Bourgeault to Monique Lacroix c/o Weaver, Simmons, 130 Paris Street, Sudbury, Ontario.

**Laurie A. Desautels** 44342  
258 First Street  
Dryden, Ontario  
P8N 2T6

applies for transfer of public vehicle (school bus) operating licence PVS-6498 from Gedeon Nolet, Wabigoon, Ontario, P0V 2W0.

### DEMANDES DE MODIFICATION :

Avis est donné par la présente que des certificats d'utilité publique ont été modifiés et délivrés en vertu de la Loi sur les véhicules utilitaires autorisés, L.R.O. de 1980, chapitre 407, article 10b et de la Loi de 1987 sur les transports routiers, L.C. de 1987, chapitre 35, en ce que concerne le licence et permis d'exploitation suivants :

Hill Top Nurseries & Landscaping Ltd. D 3364,  
R 1078

Les personnes qui ne sont pas membres de ces parties peuvent présenter leurs observations écrites relatives à la modification des certificats à la Commission des transports routiers de l'Ontario dans les soixante jours suivant la date de publication du présent avis.

## LOI DE 1987 SUR LES TRANSPORT ROUTIERS

### LOI SUR LES VEHICULES DE TRANSPORT EN COMMUN

#### DEMANDES D'EXPLOITATION D'UN AUTOBUS :

Le demande suivante des licences d'exploitation ont été présentée en vertu de la partie 1 de la Loi de 1987 sur les transports routiers, L.C. de 1987, chapitre 35 ou de la Loi sur les véhicules de transport en commun, L.R.O. de 1980, chapitre 425 et sont publiées en vertu de l'article 8, R.R.O. de 1980, règlement 716 pris en application de la Loi sur la Commission des transports routiers de l'Ontario, L.R.O. de 1980, chapitre 338. L'article 8 stipule que la Commission peut traiter ces demandes sans autre forme de procès si aucune objection n'est soulevée et déposée de la manière prescrite dans les vingt-neuf jours suivant la présente publication.

#### DEMANDE PRÉSENTÉE EN VERTU DE LA PARTIE I DE LA LOI DE 1987 SUR LES TRANSPORTS ROUTIERS :

**Cape Transit Corp.** 40285  
Wellington Avenue  
Ventnor, New Jersey  
U.S.A.

présente une demande de licence d'exploitation extra-provinciale aux fins suivantes :

“Pour le transport nolisé de passagers aller-retour à partir de divers lieux situés dans les États-Unis à partir de la frontière Ontario/É.-U.

a) à divers lieux situés dans Ontario

b) en transit à travers; a Province d'Ontario à la frontière Ontario/Québec pour l'avancement

et pour le transport entre lesdits et le point de départ.”

Le Demande suivante de licence d'exploitation ont été présentée en vertu de la partie 1 de la loi de 1987 sur les Transports Routiers, L.C. De 1987, chapitre 35 et sont publiées en vertu de l'article 3, R.R.O. de 1980, règlement 716 pris en application de la loi sur la Commission des Transports Routiers de L'Ontario, L.R.O. de 1980, Chapitre 338. Le demande publiée dans la gazette de L'Ontario du 28 Avril 1990 a été étendue le 24 et 25 du Juillet veut continuer Jedui le 30 Août 1990 dans les Bureau de la Commission, Britannica House, 151 Rue Bloor ouest, 10<sup>e</sup> étage, Toronto, Ontario.

**736215 Ontario Limited**

839 Erskine Avenue  
Peterborough, Ontario.  
K9J 5V1

présente une demande d'extension du permis d'exploitation de véhicule de transport en commun PV 3283 aux fins suivantes :

**SUPRIMER :**

"Pour le transport nolisé de passagers, leur bagage et de fret express ayant ou pourrait avoir un mouvement par air entre le cité de Peterborough, le ville de Lindsay, Les Villages des Lakefield, Omemee, Millbrook, Norwood, les cantons de Cavan, Dummer, Smith, Emily, Manvers, Ops, Monaghan Sud, Monaghan Nord, Douro, Ennis-more and Otonabee, et une place connue comme Bewdly dans le canton de Hamilton d'une part et l'aéroport international Lester B. Pearson et hôteliers avec installations sur le rue Dixon entre Mississauga d'autre part, sans privilège embarquer ou débarquer des passagers a d'autres points que ceux ci-dessous mentionnes

**SOUS RÉSERVE** (a) que le titulaire no soit autorisé à conduire que des véhicules de transport en commun pouvant transporter au plus douze passa-

**44258-A**

gers assis, en sus du conducteur. (b) les voyages nolisé soient interdit."

**LA REMPLACER PAR :**

"Pour le transport nolisé de passagers, leur bagage et de fret express ayant ou pourrait avoir un mouvement par air entre les comtés de Peterborough et Victoria d'une part et l'aéroport international Lester B. Pearson et hôteliers avec installations sur les rue Dixon et Carlingview entre Mississauga et Métropolitain Toronto sur d'autre part, sans privilège embarquer ou débarquer des passagers a d'autres points que ceux ci-dessus mentionnés

**SOUS RÉSERVE** que toute licence délivrée en vertu du présent certificat le titulaire du permis n'utilise que des véhicules de transport en commun ne pouvant transporter plus de quinze (15) passagers, en sus de conducteur.

**ET SOUS RÉSERVE** ci-dessus cette autorisation les voyage nolisé a partir de Lester B. Pearson International Airport, Métropolitain Toronto and Mississauga soient interdits.

**TARIF :**

Ceci remplace les conditions publiée dans la Gazette de l'Ontario du 28 Avril, 1990.





CARRIER LICENSING OFFICE  
1201 WILSON AVE  
MAIN FLOOR, EAST BUILDING  
DOWNSVIEW, ONTARIO  
M3M 1J8

## TARIFF OF TOLLS

PURSUANT TO SECTION 18 OF THE PUBLIC VEHICLE ACT SUBMITTED HERewith IN  
TRIPPLICATE, FOR THE APPROVAL OF THE MINISTRY, IS A TARIFF OF TOLLS PROPOSED FOR  
THE PUBLIC VEHICLE SERVICE OPERATED

BY 736215 ONTARIO LIMITED 7/4 Century Airlines  
POINTS LISTED BELOW  
BETWEEN IN VICTORIA COUNTY AND Pembroke

PROPOSED EFFECTIVE DATE 1/1/77 SIGNATURE [Signature]

## NOTE

Opposite "S" in each space enter the  
one way fare proposed.

Opposite "R" in each space enter the  
fare proposed.

In the columns headed "From" and "To",  
enter names of stopping places or fare divi-  
sions in the order in which they are located on a  
route.

In the column headed "Distance" enter the  
distance in kilometers between each stop-  
ping place or fare division.

In the space provided for "Special Fares",  
enter "Rates" for trip or book tickets and  
school or children's fares, if any.

TO	FROM	DISTANCE										
			\$49.50 R49.50	S R	S R	S R	S R	S R	S R	S R	S R	S R
Pontypool				\$55.00 R55.00	S R	S R	S R	S R	S R	S R	S R	S R
Woodville					\$60.00 R60.00	S R	S R	S R	S R	S R	S R	S R
Fenelon Falls						\$60.00 R60.00	S R	S R	S R	S R	S R	S R
Bobcaygeon							\$60.00 R60.00	S R	S R	S R	S R	S R
Kirkfield								\$75.00 R75.00	S R	S R	S R	S R
Burnt River									\$85.00 R85.00	S R	S R	S R
Cobocook										\$85.00 R85.00	S R	S R
* Add \$15.00											S R	S R
* Add \$10.00												S R

## SPECIAL FARES

to single fare for 2 people  
i.e. 55.00/person 70.00/comp.

for every passenger after two  
traveling in a group  
i.e. 70.00/person 73.00 etc.  
74.00 etc.

Additional points in Victoria County are 0.00.

Ministry of  
Transportation and  
Communications

HIGHWAY CARRIER LICENSING OFFICE  
1201 WILSON AVE.  
MAIN FLOOR, EAST BUILDING  
DOWNSVIEW, ONTARIO  
M3M 1J8

PURSUANT TO SECTION 18 OF THE PUBLIC VEHICLE ACT SUBMITTED HEREWITH IN  
TRIPPLICATE, FOR THE APPROVAL OF THE MINISTRY, IS A TARIFF OF TOLLS PROPOSED FOR  
THE PUBLIC VEHICLE SERVICE OPERATED.

BY CENTURY AIRLINE SERVICE (ALBERT G. RIEL  
BETWEEN LISTED BELOW AND PEARSON AIRPORT  
PROPOSED EFFECTIVE DATE OCT 17/89 SIGNATURE [Signature]

RECEIVED

TARIFFON TÓLLOK

PROVINCIAL  
TRANSPORT BOARD

NOTE:-

Opposite "S" in each space enter the sing  
or one way fare proposed.

Opposite "R" in each space enter the rate  
fare proposed.

In the columns headed "From" and "To" enter names of stopping places or fare divisions in the order in which they are located on your route.

In the column headed "Distance" enter the distance in Kilometer between each stopping or fare division.

In the space provided for "Special Fares" enter "Rates" for trip or book tickets and school or children's fares, if any.

TO	FROM	DISTANCE	PEARSON AIRPORT										
PETERBOROUGH				S 38.50 R 38.50	S R	S R	S R	S R	S R	S R	S R	S R	
LAKELAND, OMEHA, DOURO, ENNISHORE, BENDLEY, OTNABEE				S 49.50 R 49.50	S R	S R	S R	S R	S R	S R	S R	S R	
BRIDGENORTH, MILLBROOK, CAVAN, SMITH, EMILY, N.E.S. MONAGHAN,				S 44.00 R 44.00	S R	S R	S R	S R	S R	S R	S R	S R	
KEENE, SELWYN				S 55.00 R 55.00	S R	S R	S R	S R	S R	S R	S R	S R	
SPECIAL FARES													
LINDSAY				S 40.00 R 40.00	S R	S R	S R	S R	S R	S R	S R	S R	
PETERBORO	1-7 95.00 8-10 130.00	PRIVATE VANS								S 95.00 R 95.00	S 130.00 R 130.00	S 95.00 R 130.00	
LAKELAND, OMEHA, DOURO, ENNISHORE, BENDLEY, OTNABEE				1-7 105.00 8-10 140.00							S 105.00 R 105.00	S 140.00 R 140.00	
KEENE, SELWYN	1-7 8-10	-110.00 145.00										S R	
BRIDGENORTH, MILLBROOK, CAVAN, SMITH, EMILY, N.E.S. MONAGHAN,				1-7 - 100.00 8-10 - 135.00									

SR-LH-74 83-06 (Formerly NV-11A)

LINDSAY 1-7 97.50  
 8-10 132.50

Ministry of  
Transportation and  
Communications

## TARIFF OF TOLLS

HIGHWAY CARRIER LICENSING OFFICE  
1201 WILSON AVE.  
MAIN FLOOR, EAST BUILDING  
DOWNSVIEW, ONTARIO  
M3M 1J8

PURSUANT TO SECTION 18 OF THE PUBLIC VEHICLE ACT SUBMITTED HEREWITH IN TRIPLICATE, FOR THE APPROVAL OF THE MINISTRY, IS A TARIFF OF TOLLS PROPOSED FOR THE PUBLIC VEHICLE SERVICE OPERATED.

BETWEEN AND 2

PROPOSED EFFECTIVE DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

NOTE:-

Opposite "S" in each space enter the sin,  
or one way *fare* proposed

Opposite "R" in each space enter the rate  
there proposed.

In the columns headed "From" and "To" enter names of stopping places or fare divisions in the order in which they are located on your route.

In the column headed "Distance" enter the distance in Kilometer between each stopping or fare division.

In the space provided for "Special Fare" enter "Rates" for trip or book tickets and school or children's fares, if any.

[illegible]



Ministry of  
Transportation and  
Communications

Ontario

EAST BUILDING,  
1201 WILSON AVE.,  
DOWNSVIEW, ONTARIO,  
M3M 1J8

TARIFF OF CHARTERED TRIP RATES  
(Section 18 Public Vehicles Act)

NOTE: (1) Submit 3 copies of Tariff and separate Tariff for each class of vehicle.  
(2) Column 1 refers to Equipment and Service Points. Column 2 refers to other points which are not protected by virtue of:

(a) these points are not authorized in your operating licence,  
(b) these points include deadhead charges in the origination of the charter,  
(c) deadhead charges from these points are greater than linehaul charges from the nearest Equipment Point.

(3) Separate tariff form is required when line 1 - column 1 charges are not identical between equipment points column (ii); also, when column 2 charges are not identical to those listed under all other points column (iii).

(4) Deadhead charges for services involving drop-off and subsequent pick-up are to be listed under supplementary charges.

NAME OF OPERATOR 736215 Ontario Transport Board TARIFF FOR CLASS A B C D VEHICLE  
(CIRCLE APPROPRIATE CLASS)

DATE 1-1-74 AUTHORIZED SIGNATURE: Carol Jones

FARE OR CHARGE COMPONENTS	(i) SEATING CAP. ....		SEATING CAP. ....		SEATING CAP. ....		SEATING CAP. ....		SEATING CAP. ....		SEATING CAP. ....		(ii) EQUIPMENT POINTS AT WHICH THIS CLASS VEHICLE IS USUALLY STORED	(iii) ALL OTHER POINTS PER NOTE (2) ABOVE
	1	2	1	2	1	2	1	2	1	2	1	2		
1. CHARTER LINE HAUL CHARGE PER KILOMETRE	1-05	1-05	1-20	1-20										
2. CHARGE PER DEAD-HEAD KILOMETRE														
3. SUPPLEMENTARY CHARGES														
<u>Waiting time</u>			15 <sup>00</sup>	15 <sup>00</sup>										
			<u>per hour</u>	<u>per hour</u>										
<u>MINIMUM</u>			75 <sup>00</sup>	100 <sup>00</sup>										
			<u>per hour</u>	<u>per hour</u>										

ACCOMMODATION, MEALS OR TICKETS OF ADMISSION AS APPROPRIATE TO TRIP ARE TO BE INCORPORATED AND REPORTED IN THE CHARTER TRIP REPORT.

NAME OF CONTACT PERSON Carol Jones TELEPHONE \_\_\_\_\_

## LOI SUR LES VEHICULE DE TRANSPORT EN COMMUN

### DEMANDE D'EXPLOITATION D'UN AUTOBUS :

Le demande suivantes de permis d'exploitation ont été présentée en vertu de la Loi sur le véhicule de transport en commun, L.R.O. de 1980, chapitre 425 et est publiée en vertu de l'article 8, R.R.O. de 1980, règlement 716 pris en application de la Loi sur la Commission des transports routiers de l'Ontario, L.R.O. de 1980, chapitre 338. L'article 8 stipule que la Commission peut traiter ce demande sans autre forme de proces si aucune objection n'est soulevée et déposée de la manière prescrite dans les vingt-neuf jours suivant la présente publication.

#### B & G Bus Lines Inc.

R. R. No. 2 Box 304

Nepean, Ontario

K2C 3H1

44351

présent une demande de transfert du permis d'exploitation de véhicule de Transport en commun (autobus scolaire) PVS-6756 actuellement délivré a Wilfred Teal Limited, R. R. No. 2, Richmond, Ontario, K0A 2Z0.

#### Bourgeault Bus lines Inc.

125 Mill Road

P. O. Box 456

Chapleau, Ontario

P0M 1K0

44238-E

présente une demande de transfert d'actions :

100 actions ordinaires du capital-actions seraient transférées de Marcel Bourgeault à Laurent Lacroix, c/o Weaver, Simmons, 30 Paris Street, Sudbury, Ontario.

50 actions ordinaires du capital-actions seraient transférées de Marcel Bourgeault à Marcel Lacroix, c/o Weaver, Simmons, 30 Paris Street, Sudbury, Ontario.

50 actions ordinaires du capital-actions seraient transférées de Marcel Bourgeault à Monique Lacroix, c/o Weaver, Simmons, 30 Paris Street, Sudbury, Ontario.

#### Laurie A. Desautels

258 First Street

Dryden, Ontario

P8N 2T6

44342

présent une demande de transfert du permis d'exploitation de véhicule de Transport en commun (autobus scolaire) PVS-6498 actuellement délivré a Gedeon Nolet, Wabigoon, Ontario, P0V 2W0.

Felix D'Mello  
Secretary of the Board

## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Certificates of Incorporation/Certificats de constitution

NOTICE IS HEREBY GIVEN that a certificate of incorporation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
A. M. LEATHER (1990) LIMITED .....	897020	June 13, 1990	Welland
AK GLASS SERVICES LTD. ....	904828	July 20, 1990	Nobleton
ALAMEDA TECHNOLOGIES LTD. ....	904846	July 20, 1990	Markham
ANDERSON - DENNING LIMITED .....	903427	July 9, 1990	Orangeville
AQUA-TERRA RESTAURANT DISTRIBUTORS INC. ....	904854	July 20, 1990	Mississauga
ATTITUDES DANCE & PERFORMING ARTS STUDIO LTD .....	904824	July 20, 1990	Markham
AUDREY PEARL HOLDINGS LIMITED .....	904826	July 20, 1990	Scarborough
AUTO-FORCE INC. ....	904840	July 20, 1990	North York
BRIAN PENROSE INVESTMENTS LIMITED BUSINESS MANAGEMENT INTERNATIONAL, INC. ....	894940	July 19, 1990	Bradford
CALTEC CORPORATION INC. ....	904894	July 20, 1990	Downsview
	904900	July 20, 1990	Don Mills

Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
CAMELOT BUSINESS CENTRE WAREHOUSE LIMITED .....	895530	July	19, 1990	Nepean
CANA HERCULES HOLDING COMPANY LIMITED .....	904880	July	20, 1990	Scarborough
CANADIAN CENTRE FOR EDUCATIONAL DEVELOPMENT INC. ....	904845	July	20, 1990	Mississauga
CANADIAN CORPORATE MEDICINE INC. CANADIAN INTERNATIONAL MEDICAL AND PARAMEDICAL SERVICES INC. ....	897437	July	19, 1990	Thunder Bay
CASEY CONTRACTING (MUSKOKA) LTD. .	904867	July	20, 1990	Toronto
CEIC HOLDINGS LIMITED .....	894943	July	19, 1990	Utterson
CENTURY SPRING MFG. & SUPPLY INC. ...	904823	July	20, 1990	Toronto
CHASE'S AUTO SOUND & CELLULAR SERVICES INC. ....	904888	July	20, 1990	Toronto
CHINA BLUES CAFE INC. ....	904892	July	20, 1990	Scarborough
CONCURRENT SYSTEMS INC. ....	904838	July	20, 1990	Toronto
COVERMAX CORPORATION .....	904808	July	20, 1990	Mississauga
DISTINCTIVE DESIGN UPHOLSTERY INC. DOWNTOWN RENTALS LTD. ....	904866	July	20, 1990	Brampton
ELECTROL TOYE LTD .....	904817	July	20, 1990	Markham
ELGIN WOODWORKING INC. ....	904853	July	20, 1990	Toronto
ENDICOTT FLOORING INC. ....	903451	July	11, 1990	Ennismore
EUDOSERVE MACHINING LTD. ....	895742	July	19, 1990	St Thomas
FERGOLA CAPITAL LIMITED .....	903422	July	9, 1990	Rexdale
FLOWERS IN THE GLEN INC. ....	904886	July	20, 1990	Orangeville
GABRIEL INVESTMENTS INC. ....	904877	July	20, 1990	St Catharines
GALLERY 155 LTD. ....	903450	July	11, 1990	Oakville
GARWOOD BUSINESS STORES INCORPORATED .....	904857	July	20, 1990	Toronto
GOLD GUARD CAR CARE LTD. ....	904885	July	20, 1990	Gloucester
HAMMER DESIGN INC. ....	899373	June	29, 1990	Caledonia
HIGH PARK HOME IMPROVEMENTS INC. HONEY HARBOUR SMALL MOTORS LTD.	904821	July	20, 1990	Thornhill
HOOPP VANCOUVER REALTY INC. ....	904881	July	20, 1990	Toronto
HORATIO'S RESTAURANT OF PENETANG LTD. ....	904849	July	20, 1990	Toronto
KERIDASH GAMES LIMITED .....	904876	July	20, 1990	Toronto
KIBI GOLDFIELDS INTERNATIONAL LTD. KIDS'N YOU TRAVEL UNLIMITED INC. ....	904831	July	20, 1990	Toronto
KNECHTEL & WAQUE REAL ESTATE SPECIALISTS LTD. ....	904796	July	20, 1990	Willowdale
KRYSART INTERNATIONAL EMPLOYMENT AGENCY INC. ....	900028	July	19, 1990	Burlington
LANDKING REALTY INC. ....	904820	July	20, 1990	Oakville
LEXIM INTERNATIONAL INC. ....	899386	July	3, 1990	Richmond Hill
M.G. GRAVEL CONSTRUCTION LTD. ....	900903	July	19, 1990	Kitchener
MANEK FOOD SERVICING CORP. ....	904890	July	20, 1990	Brantford
MARANG LANDSCAPE & MAINTENANCE LTD. ....	904800	July	20, 1990	Richmond Hill
MARNOCH ELECTRICAL SERVICES INC. ..	899276	July	5, 1990	London
MAX GRIALDI CONSULTING INC .....	900202	July	19, 1990	Sudbury
MBL ENGINEERING AND INSTALLATION INC. ....	904872	July	20, 1990	Brampton
MCA CONCERTS CANADA, LTD. ....	904893	July	20, 1990	Brampton
MCCROSSAN ENVIRONMENTAL SERVICES INC. ....	894942	July	19, 1990	Stroud
MCDYRE OVERSEAS INTERNATIONAL INCORPORATED .....	904813	July	20, 1990	Oakville
MCLEAN'S GENERAL STORE INC. ....	904875	July	20, 1990	Stoney Creek
MIRAGE DEVELOPMENTS INCORPORATED .....	904856	July	20, 1990	Willowdale
MORTGAGE WORLD CORPORATION .....	904807	July	20, 1990	Cannington
	904804	July	20, 1990	Toronto
	900203	July	19, 1990	Spanish
	904802	July	20, 1990	Thornhill
	904861	July	20, 1990	Scarborough



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
MR. HOME IMPROVEMENT SPECIALTIES INC. ....	904859	July 20, 1990	Markham
NCP CONSULTING CORPORATION .....	904882	July 20, 1990	Mississauga
NIAGARA RECYCLING INDUSTRIES LTD. ....	895039	July 19, 1990	Niagara Falls
NIRAVAL ANALYTICAL TECHNOLOGIES INC. ....	900901	July 19, 1990	Guelph
NORTHTOWN STRUCTURAL LIMITED .....	904803	July 20, 1990	Bolton
NOVADEL INDUSTRIES CORPORATION ...	904848	July 20, 1990	Toronto
NUTRA WATER TECHNOLOGIES INC. ....	904884	July 20, 1990	Mississauga
PHOENICIA GOURMET LTD. ....	904837	July 20, 1990	Toronto
PLAINS DRUG STORE INC. ....	904810	July 20, 1990	Burlington
PROMOSEL INC. ....	904850	July 20, 1990	Unionville
QUANTUM ENVIRONMENTAL INC. ....	895739	July 19, 1990	Strathroy
ROBERT S. WHITE & ASSOC. INC. ....	903429	July 9, 1990	Scarborough
SHIRLEY CHEUNG SYSTEMS CONSULTING INC. ....	894766	July 19, 1990	Willowdale
SINGLE POINT MFG. INC. ....	904868	July 20, 1990	Thornhill
SOUTHERN EXPRESS LTD. ....	893171	July 19, 1990	Windsor
SPORTS PAGE PHONE PROMOTIONS INC. ....	904899	July 20, 1990	Toronto
STAND ALONE DIRECT INC. ....	900902	July 19, 1990	Cambridge
STILEX TRADING CORP. ....	904871	July 20, 1990	Downsview
SYLBEA COMMUNICATIONS INC. ....	904855	July 20, 1990	Toronto
T.R. RENOVATIONS LTD. ....	904896	July 20, 1990	Toronto
TAKE OUT MARKETING INC. ....	904827	July 20, 1990	Mississauga
TECHNO ELECTRIC INC. ....	904883	July 20, 1990	Weston
THE CHARGER CONNECTION INC. ....	904878	July 20, 1990	North Bay
THE CRITIC'S CHOICE, SOFTWARE & HARDWARE LTD. ....	895526	July 19, 1990	Ottawa
THE MARBLE CORNER/LE COIN DU MARBRE INC. ....	895531	July 19, 1990	Vanier
THE ROYAL OAK RESTAURANT LTD. ....	904869	July 20, 1990	North York
THE SEAGULL CONSULTING GROUP INC. ....	895528	July 19, 1990	Gloucester
TOMISLAV CITY FUNDS INC. ....	904860	July 20, 1990	Mississauga
TRAVEL RESERVATION SERVICE LIMITED .....	904864	July 20, 1990	Unionville
TRIMINGHAM & CO. INC. ....	904852	July 20, 1990	Toronto
UNALINK INC. ....	904863	July 20, 1990	Mississauga
VENGROVE CONSTRUCTION INC. ....	904141	July 13, 1990	Toronto
WHITEHALL REHABILITATION SERVICES INC. ....	904889	July 20, 1990	Mississauga
YIM HA GIFTS & TOYS LTD. ....	904819	July 20, 1990	Toronto
883558 ONTARIO INC. ....	883558	July 18, 1990	Kingston
883559 ONTARIO LIMITED .....	883559	July 19, 1990	Kingston
883560 ONTARIO LIMITED .....	883560	July 19, 1990	Kingston
894941 ONTARIO INC. ....	894941	July 19, 1990	Barrie
895040 ONTARIO LIMITED .....	895040	July 19, 1990	St Catharines
895041 ONTARIO INC. ....	895041	July 19, 1990	St Catharines
895529 ONTARIO INC. ....	895529	July 19, 1990	Pembroke
895740 ONTARIO INC. ....	895740	July 19, 1990	London
895741 ONTARIO INC. ....	895741	July 19, 1990	London
895743 ONTARIO LIMITED .....	895743	July 19, 1990	London
899388 ONTARIO INC. ....	899388	July 18, 1990	Timmins
900026 ONTARIO INC. ....	900026	July 19, 1990	Stoney Creek
900027 ONTARIO INC. ....	900027	July 19, 1990	Cayuga
900029 ONTARIO INC. ....	900029	July 19, 1990	Toronto
900030 ONTARIO LTD. ....	900030	July 19, 1990	Binbrook
900031 ONTARIO INC. ....	900031	July 19, 1990	Hamilton
900201 ONTARIO INC. ....	900201	July 19, 1990	Sudbury
903407 ONTARIO INC. ....	903407	July 5, 1990	Summerstown
903423 ONTARIO INC. ....	903423	July 9, 1990	Belleville
903424 ONTARIO INC. ....	903424	July 9, 1990	Chatham
903425 ONTARIO INC. ....	903425	July 9, 1990	Scotland

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
903426 ONTARIO INC. ....	903426	July 9, 1990	Delhi
903432 ONTARIO LIMITED ....	903432	July 9, 1990	Carleton Place
904795 ONTARIO LIMITED ....	904795	July 20, 1990	Newcastle
904797 ONTARIO INC. ....	904797	July 20, 1990	Claremont
904798 ONTARIO INC. ....	904798	July 20, 1990	Toronto
904799 ONTARIO INC. ....	904799	July 20, 1990	Toronto
904801 ONTARIO LIMITED ....	904801	July 20, 1990	North York
904805 ONTARIO LIMITED ....	904805	July 20, 1990	Mississauga
904806 ONTARIO INC. ....	904806	July 20, 1990	Woodbridge
904809 ONTARIO LIMITED ....	904809	July 20, 1990	Toronto
904812 ONTARIO INC. ....	904812	July 20, 1990	Toronto
904814 ONTARIO LIMITED ....	904814	July 20, 1990	Weston
904815 ONTARIO LIMITED ....	904815	July 20, 1990	Toronto
904816 ONTARIO LIMITED ....	904816	July 20, 1990	Toronto
904822 ONTARIO INC. ....	904822	July 20, 1990	Toronto
904829 ONTARIO LIMITED ....	904829	July 20, 1990	Mississauga
904832 ONTARIO LIMITED ....	904832	July 20, 1990	North York
904833 ONTARIO LIMITED ....	904833	July 20, 1990	Toronto
904834 ONTARIO LIMITED ....	904834	July 20, 1990	Toronto
904835 ONTARIO LIMITED ....	904835	July 20, 1990	Toronto
904836 ONTARIO LIMITED ....	904836	July 20, 1990	Toronto
904839 ONTARIO LIMITED ....	904839	July 20, 1990	Toronto
904841 ONTARIO LIMITED ....	904841	July 20, 1990	Toronto
904842 ONTARIO LIMITED ....	904842	July 20, 1990	Toronto
904843 ONTARIO LIMITED ....	904843	July 20, 1990	Woodstock
904844 ONTARIO LTD. ....	904844	July 20, 1990	Toronto
904851 ONTARIO INC. ....	904851	July 20, 1990	North York
904858 ONTARIO LIMITED ....	904858	July 20, 1990	Downsview
904865 ONTARIO LIMITED ....	904865	July 20, 1990	Toronto
904870 ONTARIO INC. ....	904870	July 20, 1990	Orangeville
904873 ONTARIO INC. ....	904873	July 20, 1990	Downsview
904874 ONTARIO INC. ....	904874	July 20, 1990	Englehart
904879 ONTARIO LTD. ....	904879	July 20, 1990	Mississauga
904887 ONTARIO LIMITED ....	904887	July 20, 1990	Toronto
904891 ONTARIO LIMITED ....	904891	July 20, 1990	Toronto
904897 ONTARIO INC. ....	904897	July 20, 1990	Markham
904898 ONTARIO LIMITED ....	904898	July 20, 1990	Mississauga

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DIANE S. NAGEL,  
Director, Companies Branch.

### Certificates of Incorporation Issued Certificats de constitution délivrés

NOTICE IS HEREBY GIVEN that, under the *Co-operative Corporations Act*, a Certificate of Incorporation has been issued to:

AVIS EST PAR LES PRÉSENTES DONNÉ qu'en vertu de la *Loi sur les coopératives*, un certificat de constitution a été délivré à :

Name of Corporation	Date of Incorporation	Head Office
Nom de la compagnie	Date de constitution	Siège social
BEVERLEY HILLS CO-OPERATIVE HOMES INC. ....	1990 - 07 - 24	Toronto
CONTACT HOUSING CO-OPERATIVE INC. ....	1990 - 07 - 13	Toronto
COURTLAND MEWS CO-OPERATIVE HOMES INC. ....	1990 - 07 - 18	Toronto
NEEDLEWOODS CO-OPERATIVE HOMES OF KITCHENER INC. ....	1990 - 07 - 23	London
PRIORY SQUARE CO-OPERATIVE HOMES INC. ....	1990 - 07 - 05	Waterloo

Name of Corporation	Date of Incorporation	Head Office
Nom de la compagnie	Date de constitution	Siège social
ROYAL CITY HOUSING CO-OPERATIVE INC. ....	1990-07-09	Waterloo

C. N. H. WILSON,  
 Director, Credit Unions and Co-operatives Services Branch, Ministry of Financial Institutions.  
 Directeur, Direction des Caisses populaires et des coopératives,  
 Ministère des Institutions financières.

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## Certificates of Amalgamation/Certificats de fusion

NOTICE IS HEREBY GIVEN that a certificate of amalgamation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date	Names of Amalgamating Corporations
BRIDGELAND TERMINALS LIMITED	900888	July 16, 1990	B-Line Express Limited Bridgeland Terminals Limited
DORCAN INDUSTRIES INC. ....	904830	July 20, 1990	Dorcan Industries Inc. 899848 Ontario Limited
DYNETECH LIMITED .....	904612	July 18, 1990	826367 Ontario Inc. 546155 Ontario Limited Dynetech Limited
POLARIS CONSULTING SERVICES LTD. ....	904825	July 20, 1990	Polaris Consulting Services Ltd. New Polaris Ltd.

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DIANE S. NAGEL,  
 Director, Companies Branch.

## Corrected Certificates of Amalgamation Certificats de fusion rectifiés

NOTICE IS HEREBY GIVEN that a certificate of amalgamation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date	Names of Amalgamating Corporations
NUSSEY TRANSPORT LIMITED .....	792683	Sept. 30, 1988	Nussey Transport Limited 627584 Ontario Inc.

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DIANE S. NAGEL,  
 Director, Companies Branch.

## Certificates of Continuance/Certificats de prorogation

NOTICE IS HEREBY GIVEN that a certificate of continuance under the *Business Corporations Act*, 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Effective Date	Registered Office
RIDEAUSHIP GROUP LIMITED .....	377093	July 11, 1990	Nepean

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DIANE S. NAGEL,  
 Director, Companies Branch.



## Transfer of Ontario Corporations Transfert de compagnies ontariennes

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act, 1982*, an authorization to make an application for an instrument of continuance outside Ontario, has been given to:

Name of Corporation	Ontario Corp. No.	Effective Date	Jurisdiction Where Applying
THERMOGRAFIX INC. ....	863404	July 17, 1990	Canada
VICTORIA PLACE INVESTMENTS INC. ....	607125	July 18, 1990	Canada
VISCOUNT FOODS LIMITED .....	200402	July 18, 1990	Canada

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DIANE S. NAGEL,  
Director, Companies Branch.

## Amendments to Articles/Modifications aux statuts

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act, 1982*, amendments to articles have been effected as follows:

Name of Corporation	Ontario Corp. No.	Effective Date
A FINE LINE PRODUCTIONS LIMITED (formerly Paul-Okada Productions Limited) .....	273678	July 20, 1990
ACI ARGYLE COMMUNICATIONS INC. (formerly Informedia Inc.) ....	734888	July 19, 1990
ADAMSON ACOUSTIC DESIGN CORPORATION .....	706920	July 24, 1990
ADELAIDE GROUP INC. (formerly Adelaide Personnel Services Limited)	465925	July 24, 1990
ADVANTAGE REALTY INVESTMENTS CORP. (formerly W.D.G.E. Realty Investments Corp.) .....	895983	July 20, 1990
ANDORA INC. (formerly Eastern Wire & Conduit Limited) .....	463389	July 13, 1990
THE ARNOLDI CONSULTING GROUP LTD. (formerly Arnoldi Marketing Limited) .....	740205	July 20, 1990
BALDWIN INDUSTRIAL & MAINTENANCE SUPPLIES LTD. ....	637026	July 24, 1990
BEAMSVILLE INDUSTRIES LIMITED (formerly Black Gold Plastics Inc.) .....	848165	July 20, 1990
BETTE-LYN FASHIONS LIMITED .....	417647	July 19, 1990
BETTER AND UP-DATE ENTERPRISE INC. (formerly General Resources Textiles & Industrial Inc.) .....	857523	July 24, 1990
BOB'S MOVING LTD. ....	825111	July 18, 1990
BORCROSS FREIGHT SERVICES INC. (formerly 877514 Ontario Inc.) .	877514	July 20, 1990
BRANTECH CORPORATION .....	690932	July 23, 1990
BUFF'N SHINE INC. (formerly 864392 Ontario Limited) .....	864392	July 19, 1990
C.C. AGGREGATES INC. (formerly North Meadow Nursery & Landscaping Ltd.) .....	691535	July 18, 1990
CAGNEY'S RIBBS AND CHICKEN LTD. (formerly 735564 Ontario Limited) .....	735564	July 23, 1990
CAKEWALK SYSTEMS INC. ....	863403	July 23, 1990
CAMBRIDGE DESERT INN, INC. ....	307270	July 20, 1990
COMPASS FASTENER CORPORATION (formerly Consolidated Fastener Corporation) .....	899829	July 24, 1990
CANTEX HOLDINGS CORP. ....	521968	July 18, 1990
CARMEN ALFANO HOLDINGS LIMITED .....	619454	July 18, 1990
CHRIS PUBLISHING INC. (formerly 671869 Ontario Ltd.) .....	671869	July 24, 1990
CLEMENTS AND CLEMENTS REAL ESTATE LIMITED .....	255705	July 23, 1990
COMAY PLANNING CONSULTANTS LIMITED .....	204743	July 18, 1990
COMPTON CABLE T.V. LIMITED .....	253809	July 20, 1990
CONFEDERATION FINANCIAL SERVICES LIMITED .....	752790	July 5, 1990
CONTRACT STAFFING OF CANADA INC. (formerly Workbusters Temporary Help Services Inc.) .....	825908	July 18, 1990
CONSUMER INSTA-QUOTE INC. (formerly 884033 Ontario Ltd.) .....	884033	July 24, 1990
CONTROLEC SERVICES LIMITED .....	267185	July 18, 1990
CORUNDOL ENVIRONMENTAL LTD .....	527055	July 18, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
COURTICE AUTO RECYCLING LTD. (formerly Courtice Auto Parts Ltd.) .....	584464	July 9, 1990
COURTLAND SECURITIES CORPORATION .....	758572	July 19, 1990
CPAD HOLDINGS LTD. ....	691636	July 13, 1990
BRADFORD & ADAMS HOMES LIMITED (formerly 883540 Ontario Inc.) .....	883540	July 18, 1990
DANIELS KINSMEN CORPORATION (formerly Daniels Lakeshore G Corporation) .....	876341	July 18, 1990
DANIELS TRINITY CORPORATION (formerly Daniels Lakeshore J Corporation) .....	876342	July 18, 1990
DEVINS BUILDING SUPPLIES LTD. (formerly Lindstrom and Nilson Limited) .....	45427	July 9, 1990
DILLINGHAM HOLDINGS LIMITED .....	810905	July 20, 1990
DIXIE INTERNATIONAL ARENAS INC. (formerly Dixie International Four Rinks Inc.) .....	793845	July 17, 1990
DRAW-TITE (CANADA) LTD. (formerly Trimas Acquisition III, Inc.) ..	878662	July 19, 1990
DUBMAN ENTERPRISES INC. ....	403891	July 23, 1990
E. SQUARED B. INC. ....	530041	July 24, 1990
EDUCATIONAL TRUST SERVICES INC. ....	888458	July 18, 1990
ELECTROZAD SUPPLY CO. (LONDON) LIMITED .....	238744	July 19, 1990
EMERGENCY CONTRACTING CO. LTD. (formerly Trades Marketing Inc.) .....	866927	July 20, 1990
FAST-VÁL SCHOOL OF TILE INSTALLATION LTD. (formerly Fast-Vale School of Tile Installation Ltd.) .....	902355	July 23, 1990
FESTIVAL CITY MOTORS LIMITED (formerly Festival City Rustproofing Limited) .....	310112	July 23, 1990
FIRST B SHARES INC. ....	880716	July 12, 1990
FRANK ALFANO HOLDINGS LIMITED .....	619462	July 18, 1990
G. BETTENCOURT BUILDING CONSULTANTS LTD. ....	366637	July 19, 1990
G. RICHARDSON INSURANCE AGENCY AND FINANCIAL SERVICES INC. ....	728296	July 20, 1990
GENMARK INSURANCE BROKERS LIMITED .....	236426	July 20, 1990
GILLIS EVERGREEN MARKETING INC. (formerly Gillis Evergreen Merchandising Inc.) .....	903326	July 24, 1990
GOLDOME MORTGAGE INVESTMENT CORPORATION .....	891958	July 20, 1990
GOthic UTILITY INSURANCE ADJUSTERS INC. (formerly Gothic Consultants Inc.) .....	899192	July 19, 1990
HANNA'S LAWN AND GARDEN CENTRE LTD. (formerly Fraser Hanna's Garage Ltd.) .....	250492	July 18, 1990
HY-TEST READY-MIX LTD. ....	359771	July 5, 1990
I. COHEN & COMPANY LIMITED .....	51924	July 23, 1990
IMAGE 2 COMMUNICATIONS INC. ....	647548	July 9, 1990
ITALO ALFANO HOLDINGS LIMITED .....	619455	July 18, 1990
JASMINE CANADA INC. (Jobst Institute Canada Inc.) .....	863131	July 18, 1990
JELINEK SPORTS INC. (formerly 901976 Ontario Inc.) .....	901976	July 24, 1990
JOFEL INVESTMENTS LIMITED .....	209520	July 19, 1990
K.O.S. HOLDINGS LTD. ....	468790	July 19, 1990
KEY SUPPORT SYSTEMS INC. (formerly 882552 Ontario Limited) .....	882552	July 18, 1990
KIDKARE HOLDINGS INC. ....	542230	July 24, 1990
KITCHER DEVELOPMENT CONSULTANTS LTD. (formerly Kitcher, McEwen Development Consultants Ltd.) .....	733315	July 20, 1990
KRIS FOOD PRODUCTS LIMITED .....	579421	July 20, 1990
KUYVENHOVEN GREENHOUSES INC. ....	501069	July 19, 1990
L. GIANCOLA & SON HAULAGE LTD. ....	665590	July 23, 1990
LABBATE CLIMATE CONTROL SYSTEMS INC. ....	670077	July 23, 1990
LAKEside OXYGEN LTD. ....	274213	July 5, 1990
LATCHMAN INSURANCE BROKERS LIMITED .....	133200	July 23, 1990
LEGGO HOLDINGS INC. (formerly Lakeshore Minerals Inc.) .....	43073	July 18, 1990
LESLIE ELECTRIC LTD. ....	503127	July 19, 1990
LINDSAY + HAUER INTERNATIONAL LTD. (formerly Lindsay + Wasser Inc.) .....	600519	July 18, 1990
LONDON FIRE EQUIPMENT LTD. ....	509729	July 20, 1990

Name of Corporation	Ontario Corp. No.	Effective Date	
LONETREE CONSTRUCTION MANAGEMENT LTD. (formerly Bowles and Blundell Mechanical Contractors Inc.) .....	773794	July	24, 1990
LUSTRECAN INC. (formerly 888997 Ontario Inc.) .....	888997	July	18, 1990
THE LVD SALES GROUP LIMITED (formerly Stevens Machinery Sales Limited) .....	593423	July	20, 1990
M.J.A. MACGOWAN HOLDINGS LTD. (formerly 899981 Ontario Inc.) ..	899981	July	19, 1990
MHD INVESTMENTS LIMITED .....	543493	July	19, 1990
MICHAEL HABER HOLDINGS LTD. (formerly 805039 Ontario Inc.) ....	805039	July	19, 1990
MOLLENHAUER PROJECTS INC. (formerly 734433 Ontario Limited) ...	734433	July	23, 1990
MONASTERY BAKERY & DELICATESSEN LTD. (formerly Sweet Abbey's Bakery & Delicatessen Ltd.) .....	892042	July	24, 1990
MR. C. RESTAURANT INC. ....	352687	July	9, 1990
MULTISTREAM POWER CORPORATION .....	738282	July	24, 1990
MULTITEX INTERNATIONAL INC. (formerly 862476 Ontario Limited)	862476	July	24, 1990
MURGOLD RESOURCES INC. ....	441731	July	20, 1990
MYRRH INVESTMENTS LIMITED .....	137663	July	23, 1990
NAMO HOLDINGS LIMITED .....	506995	July	18, 1990
NEAL PONTIAC BUICK & G.M.C. LTD. ....	348408	July	9, 1990
NIAGARA ESTATES LTD. ....	871212	July	19, 1990
THE NIAGARA GUARDIAN LIMITED .....	842790	July	20, 1990
NORANDA INC. ....	753180	July	23, 1990
O.B.I. HOLDINGS LIMITED .....	436385	July	17, 1990
ODNOKON CONSTRUCTION LIMITED (formerly Centre Line Driver Pool Inc.) .....	655034	July	20, 1990
OKUDA GENERAL CONTRACTING COMPANY LTD. (formerly 903632 Ontario Inc.) .....	903632	July	18, 1990
P.I.I.M. CANADA CORPORATION .....	849983	July	19, 1990
P. R. LAMONT ADVERTISING LTD. ....	367632	July	23, 1990
PANA TRUCK LEASING CORPORATION CORPORATION DE LOCATION DE CAMIONS PANA (formerly 852748 Ontario Inc.) .....	852748	July	23, 1990
PARBIRDIE HOLDINGS INC. (formerly 849968 Ontario Limited) .....	849968	July	19, 1990
PARKLANE DEPARTMENT STORE INC. (formerly 898591 Ontario Inc)	898591	July	23, 1990
PATLYN COMPANY LTD. ....	374239	July	23, 1990
PAUL'S CUSTOM FIRE ASSAYING LTD. ....	576714	July	24, 1990
PEREZ BRAMALEA LIMITED .....	809368	July	20, 1990
PINE WINDSOR HOLDINGS LTD. ....	882833	July	19, 1990
PORT SARNIA MARINE LIMITED .....	284775	July	20, 1990
PRINCIPAL PRINTING INC. (formerly Vittorio Holdings Inc.) .....	864575	July	24, 1990
PROBODY GYM & FITNESS CENTRE INC. (formerly 894265 Ontario Inc.) .....	894265	July	3, 1990
PROSEP TECHNOLOGIES INC. (formerly Prosep Technology Inc.) .....	819169	July	20, 1990
R.J. RUTHERFORD CONTRACTING SERVICES LTD. ....	375451	July	24, 1990
R.J.P. HOLDINGS LIMITED .....	467575	July	19, 1990
REEMARK MANAGEMENT SERVICES LIMITED .....	615818	July	23, 1990
REFF INCORPORATED .....	512451	July	18, 1990
REVERE TRANSDUCERS CANADA LTD. ....	708716	July	23, 1990
RGT PROPERTIES INC. (formerly Fast Food Shops Company Limited) ..	266968	July	23, 1990
ROBERT D. DUNN AND ASSOCIATES LIMITED .....	533024	July	19, 1990
ROE-CAN MANAGEMENT LTD. ....	386010	July	18, 1990
THE ROYAL BUSINESS GROUP INC. (formerly Karen Royal & Associates Inc.) .....	817699	July	18, 1990
ROYAL CITY AUTO LEASING LTD. ....	577950	July	17, 1990
RUBBERMAID INDUSTRIES CANADA INC./LES INDUSTRIES RUBBERMAID CANADA INC. ....	62321	July	19, 1990
SABATINI U. GOURMET FOODS LIMITED (formerly Stardust Gourmet Foods Limited) .....	286353	July	23, 1990
SALATIN INVESTMENTS LTD. ....	387414	July	20, 1990
SALIENTIA HOLDINGS LTD. ....	377191	July	20, 1990
SANDRIN BROTHERS LIMITED .....	719992	July	20, 1990
SARNIA MACHINE & WELDING WORKS LIMITED .....	72657	July	23, 1990
SHIR ENTERPRISE LTD. ....	842537	July	24, 1990



Name of Corporation	Ontario Corp. No.	Effective Date	
SIMPLEXITY SYSTEMS INC. (formerly Mizrachi Hertzman Computer Consultants Ltd.)	887376	July	20, 1990
SPECIALTY AIR ADVERTISING INC. (formerly Debco Rentals and Leasing Limited)	444949	July	19, 1990
STEPHENSON'S RENT-ALL LIMITED	435041	July	18, 1990
STICKER QUEEN INC. (formerly Cycle Auto Sales Inc.)	606966	July	24, 1990
SPIRO GEAR CORPORATION (formerly 721886 Ontario Inc.)	721886	July	24, 1990
STRATH MANOR LTD.	577918	July	19, 1990
TALLEYRAND INVESTMENTS LIMITED	130871	July	18, 1990
TAP CAPITAL CORP.	730039	July	24, 1990
TARLEE ENTERPRISES LTD. (formerly 617786 Ontario Ltd.)	617786	July	23, 1990
TATLOCK DEVELOPMENT INC.	809478	July	24, 1990
TELEATOR TORONTO EAST INC. (formerly 868928 Ontario Inc.)	868928	July	19, 1990
TELEATOR YORK INC. (formerly 743765 Ontario Limited)	743765	July	24, 1990
TENCORR HOLDINGS INC.	690622	July	23, 1990
TRANSCO INTERNATIONAL CORPORATION (formerly 644418 Ontario Limited)	644418	July	24, 1990
TRI-CLEAR TECHNOLOGY CORP. (formerly Meritor Financial Corp.)	847984	July	19, 1990
TRUEMAN HAWLEY LTD.	418731	July	9, 1990
TS GRAPHICS LTD. (formerly Thomson Seyffer Graphics Ltd.)	344556	July	24, 1990
ULTIMINO ALFANO HOLDINGS INC.	619464	July	18, 1990
VERITIME INC. (formerly 833145 Ontario Limited)	833145	July	18, 1990
VICATHGORD INVESTMENTS LIMITED	202820	July	18, 1990
WAINRIDGE HOLDINGS INC.	433180	July	20, 1990
WEST ROOFING (CANADA) INC. (formerly 882606 Ontario Inc.)	882606	July	18, 1990
WESTWOOD-DALEWOOD LIMITED	382311	July	24, 1990
YORK BAY CAPITAL CORPORATION (formerly Telecom Capital Corporation)	650120	July	20, 1990
ZIEGLER-BROWN LIMITED	148622	July	18, 1990
7-24 VIDEO RENTALS LTD. (formerly 7-24 Auto Glass Inc.)	870598	July	18, 1990
4452 SHEPPARD AVENUE EAST LIMITED	228760	July	5, 1990
259747 ONTARIO LIMITED (formerly Yardstick Home Centres Limited)	259747	July	9, 1990
263449 HOCKEY SCHOOLS LTD.	263449	July	18, 1990
337864 ONTARIO LIMITED	337864	July	18, 1990
374595 ONTARIO LIMITED	374595	July	9, 1990
396577 ONTARIO LIMITED (formerly Terveld Bros. Auto Service Ltd.)	396577	July	24, 1990
531592 ONTARIO LIMITED	531592	July	11, 1990
537118 ONTARIO LIMITED (formerly Video Goes Hollywood Inc.)	537118	July	19, 1990
548731 ONTARIO INC.	548731	July	19, 1990
548957 ONTARIO INC.	548957	July	9, 1990
554646 ONTARIO LIMITED (formerly White Oaks Welding Supplies Limited)	554646	July	19, 1990
561046 ONTARIO LIMITED	561046	July	20, 1990
564554 ONTARIO LTD.	564554	July	11, 1990
576100 ONTARIO INC. (formerly Bioculture (Ontario) Inc.)	576100	July	24, 1990
599955 ONTARIO LIMITED	599955	July	19, 1990
601213 ONTARIO LIMITED	601213	July	17, 1990
610841 ONTARIO INC. (formerly Canadian Closet Company Inc.)	610841	July	18, 1990
617381 ONTARIO LTD. (formerly Planco Drafting Ltd.)	617381	July	16, 1990
648340 ONTARIO LIMITED (formerly Brian Dufour Therapeutic Services Limited)	648340	July	17, 1990
728163 ONTARIO LIMITED (formerly Cobico Industries Ltd.)	728163	July	24, 1990
751665 ONTARIO INC.	751665	July	19, 1990
763926 ONTARIO LTD.	763926	July	18, 1990
794277 ONTARIO LIMITED	794277	July	18, 1990
814565 ONTARIO LIMITED	814565	July	23, 1990
818125 ONTARIO INC. (formerly Theratronics Technical Incorporated)	818125	July	19, 1990
837882 ONTARIO INC. (formerly Andrew Sarlos Bond Fund General Partner Limited)	837882	July	19, 1990
849516 ONTARIO LIMITED	849516	July	20, 1990
867012 ONTARIO INC.	867012	July	23, 1990
869337 ONTARIO LIMITED	869337	July	18, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
888465 ONTARIO LTD. ....	888465	July 24, 1990
890043 ONTARIO INC. ....	890043	July 17, 1990
896236 ONTARIO INC. ....	896236	July 20, 1990

DIANE S. NAGEL,  
Director, Companies Branch.

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### Articles of Revival/Statuts de reconstitution

NOTICE IS HEREBY GIVEN that certificates of revival under the *Business Corporations Act, 1982* have been endorsed reviving the following corporations:

Name of Corporation	Ontario Corp. No.	Effective Date
ELECTRONIC ENERGY CONTROL INC. (formerly EEC Electronic Energy Control Inc.) .....	651949	July 24, 1990
KRAMAK CONSTRUCTION COMPANY LIMITED .....	233956	July 13, 1990
534852 ONTARIO LIMITED .....	534852	July 15, 1990

DIANE S. NAGEL,  
Director, Companies Branch.

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### Extra-Provincial Licences Endorsed Permis extraprovinciaux inscrits

NOTICE IS HEREBY GIVEN that, under Section 5 of the *Extra-Provincial Corporations Act, 1984*, Extra-Provincial Licences have been endorsed for:

Name of Corporation	Ontario Corp. No.	Jurisdiction of Incorporation	Effective Date
BOWLUS TRUCKING CO., INC. ....	899325	Ohio	July 12, 1990
C. VAN BOXELL TRANSPORTATION, INC. ....	899376	Michigan	June 29, 1990
COSTCOM, INC. ....	881850	New York	July 5, 1990
HECLA MINING COMPANY .....	899378	Delaware	June 29, 1990
HYUNDAI ELECTRONICS AMERICA .....	899273	California	July 13, 1990
LISTER-PETTER INC. ....	899377	Delaware	June 29, 1990

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DIANE S. NAGEL,  
Director, Companies Branch.

### Extra-Provincial Licences Terminated Permis extraprovinciaux résiliés

NOTICE IS HEREBY GIVEN that, under Section 5 of the *Extra-Provincial Corporations Act, 1984*, termination of Extra-Provincial Licences have been endorsed for the following corporations:

Name of Corporation	Ontario Corp. No.	Jurisdiction of Incorporation	Date of Termination
KASON CANADA, LTD. ....	730892	New York	June 22, 1990

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DIANE S. NAGEL,  
Director, Companies Branch.

**Certificates of Dissolution/Certificats de dissolution**

NOTICE IS HEREBY GIVEN that a Certificate of Dissolution under the *Business Corporations Act, 1982* has been endorsed:

Name of Corporation	Ontario Corp. No.	Effective Date
BLUETIN FASHIONS INC. ....	738321	July 16, 1990
CONSENSUS RESEARCH LIMITED ....	438895	July 4, 1990
ELDAD ENTERPRISES INC. ....	713075	July 17, 1990
H. A. BROWN LIMITED ....	570633	July 16, 1990
HEISZ MOTOR SERVICES LIMITED ....	123565	July 5, 1990
J. H. TURVEY ELECTRIC LIMITED ....	54553	July 4, 1990
KSS CONSULTANTS LTD. ....	661703	July 13, 1990
LABERADA MINES LIMITED ....	207619	July 18, 1990
OAKDALE MINES LIMITED ....	40786	July 17, 1990
S. J. ALIMAN ORIENTAL RUGS LIMITED ....	141709	July 17, 1990
TERRENCE R. WALLACH & ASSOCIATES INC. ....	626311	July 12, 1990
VARNA DEVELOPMENTS INC. ....	356153	June 29, 1990
WYOMING INVESTMENTS INC. ....	713864	July 19, 1990
541692 ONTARIO LIMITED ....	541692	July 17, 1990
562385 ONTARIO INC. ....	562385	July 12, 1990
811851 ONTARIO LIMITED ....	811851	July 18, 1990

DIANE S. NAGEL,  
Director, Companies Branch.

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### Decisions on Applications for Audit Exemption Décisions quant aux demandes de dispense en matière de vérification

NOTICE IS HEREBY GIVEN that the Director has received applications for exemption from certain requirements of Part XII of the *Business Corporations Act, 1982* from the corporations named hereunder and has rendered her decision.

Name of Corporation	Ontario Corp. No.	Whether Exemption Granted
BURLINGTON RIVIERA CONSTRUCTION LIMITED .....	245128	Exemption Granted
BURLINGTON RIVIERA CONSTRUCTION LIMITED .....	245128	Exemption Granted
CALCOMP CANADA INC. ....	354548	Exemption Granted
HAMMERSON MISSISSAUGA INC. ....	752957	Exemption Granted
KOCH ENGINEERING COMPANY, LTD. ....	134318	Exemption Granted
MAPLE VALLEY FINANCIAL INC. ....	762203	Exemption Granted
OTACO SEATING CO., LTD. ....	614315	Exemption Granted
SCHLUETER CHEVROLET OLDSMOBILE LIMITED .....	531718	Exemption Granted

DIANE S. NAGEL,  
Director, Companies Branch.

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### Notice of Default in Complying with the Corporations Tax Act Avis de défaut d'observer la Loi sur l'imposition des personnes morales

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 240 (1) of the *Business Corporations Act, 1982* that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, Orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario L1H 8H6.



Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
A & C Value Store Limited .....	642723	East Dumping Services Ltd. ....	678718
A To Z Marketing Services Ltd. ....	292413	Eden Mechanical Services Limited .....	680984
Aerodynamic Industries Corp. ....	511983	Elverston-Trethewey Nursery School Limited .....	308356
Alanna V (Sherway) Ltd. ....	635080	Erwin H. Investments Inc. ....	456115
Albi Corporation .....	653542	ESE Properties Limited .....	673527
Algonquin Estates Limited .....	655122	Estate and Corporate Funding Programs Co. Limited .....	134508
All Calls Delivery Service Inc. ....	679035	Euro-Brick Limited .....	657007
All Pro Sports World Inc. ....	677914	Eurocraft Store Fixtures and Custom Cabinets Ltd .....	632743
Allegor Inc. ....	594841	F N V Sales Canada Limited .....	677433
Am-Me Consultants Inc. ....	677873	Fanaco Holdings Limited .....	364398
Bak's Welding Inc. ....	338808	Fensteel Investments Limited .....	516444
Bally Rou Place Limited .....	456164	Frank Flanagan Custom Clothier Limited .....	78345
Basic Trading and Supply Corporation .	594948	Freeway Friends Promotions Inc. ....	673176
Bay Seven Investments Ltd. ....	678601	G. & T. Barber Shop Ltd. ....	526480
Beau Nash Gentlemen's Apparel Limited .....	235718	G. Fleet Custom Machine Limited .....	431392
Belleville Yarns Limited .....	394617	Gemologists Incorporated .....	342703
Bings Wings & Things Inc. ....	677316	Glamour Housefurnishings Limited .....	152665
Bodycare Industries (Ontario) Inc. ....	678635	Gobin Investments Inc. ....	491317
Buckhorn Property Corporation .....	680883	Grayleen Enterprises Limited .....	527630
C.I.C. the Canadian Information Centre Inc. ....	680201	Great Canadian Donut Manufacturers Limited .....	609378
C.J.'s Roadhouse & Restaurant Inc. ....	562587	H. L. Godfrey Enterprizes Ltd. ....	424434
Cadieux & Webster Jewellery Manufacturing Limited .....	637657	H.C.H. General Construction Ltd. ....	562809
Canadian Motor Corporation .....	680044	H.D. Marcus Enterprises Inc. ....	396877
Cansia International Corporation .....	259621	H.M.P.J. Inc. ....	640019
Carsleen Sales Ltd. ....	555601	Hadley Hotels Inc. ....	421441
Cash-A-Cheque Services Inc. ....	515586	Hamco Video Productions Inc. ....	454937
Cavoto's Sharpen-Up, Inc. ....	311923	HLP Corporation .....	634313
Centennial Commercial Cleaners Limited .....	226726	Home-Style Bake Shoppe Limited .....	627528
Challenging Homes Ltd. ....	341519	Hugh Hoggarth Landscape Services Ltd.	411675
Chemiserie Designs Inc. ....	642819	Ice Graphics Corp. ....	677904
Classic Stables Incorporated .....	641994	Inter Cab Incorporated .....	260272
Clinton V. Donaldson & Company Limited .....	274556	Inverness Realty Ltd. ....	459510
Clipper Junction Ltd. ....	526848	IRF-ZEB Investments Ltd. ....	380156
Cobalt Refinery Limited .....	120341	J. & H. Nielsen Ltd. ....	264319
Com-Plan Insurance Agency Ltd. ....	632573	J. A. McKeown Co. (1985) Ltd. ....	635984
Comfy Living Company Limited .....	563468	J. M. Construction Limited .....	67621
Consolidated Aluminum & Glass Corp.	523119	Jack F. Wakeman Limited .....	127194
Convention Craft Limited .....	356884	Jalna Travel Centre Limited .....	676341
Core Fund Management Ltd. ....	704199	James Robinson Service of Wallaceburg Limited .....	213679
Coulson Press Inc. ....	636904	Jerol Wheeler Associates Ltd. ....	292010
Creative Leasing Inc. ....	263129	JJJ Financial Ltd. ....	309274
Curtin Mines Limited .....	281383	Julevale Developments Limited .....	265371
D. K. M. Management Inc. ....	629642	Junk Food Inc. ....	411298
D.K. Brennan Holdings Ltd. ....	629577	Kross-Kan Holidays Ltd. ....	453144
Dainuvite Kalnins Inc. ....	342452	Lamplighters Investments Inc. ....	596593
Danny's Transport & Haulage Ltd. ....	677432	Larry Russell Limited .....	367064
Delta Ward Company Limited .....	209613	Leamington Hardware (1982) Limited ..	445077
Denis Wilson Creative Services Limited	677625	Legal Audio Services of Canada Ltd. ...	260308
Diamond Detailing Ltd. ....	673523	Leo Herbert Limited .....	316851
Direct Aluminum Products Limited .....	144226	Life Care Development (Peterborough) Inc. ....	646402
Dixon Automotive Centre Limited .....	454929	Lincraft Cement Contractors Inc. ....	673117
Dori's Imported Shoes Inc. ....	559529	Liskeard Equipment Inc. ....	299679
Double E Management Ltd. ....	572454	London Confectioners Ltd. ....	673517
Dovercourt Tavern Limited .....	215183	Lumistat Electronics Inc. ....	680501
Dovico Inc. ....	563400	Madama Racquets Developments Inc. ..	494036
Downtown Livery Ltd. ....	651977	Magda Burger & Donut Ltd. ....	675839
Drago Construction Incorporated .....	276288		
Drury Lane Muffins Ltd .....	635576		

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Makmo Industries Inc. ....	563155	The Eastern Ontario Insurance Agencies Investment Group Inc. ....	626137
Malcolm Batty Photography Inc. ....	342136	The Heads Hair Styles Inc. ....	342330
Malezis Maintenance Company Limited	212310	The Railing Man Inc. ....	722920
Maritime International Inc. ....	678144	Thickson Place Developments Inc. ....	633903
McGaffey Enterprises Limited	315881	Thormag Engineering Inc. ....	367980
McLellan Turf Spray Inc. ....	597145	Thorlease Inc. ....	616919
MCM Communications Inc. ....	677980	Three G's Limited	677907
Melshana Holdings Inc. ....	388155	Threeich Enterprises Ltd. ....	678308
Menger Enterprises Limited	341146	Timflicks Ltd. ....	682732
Messenjah Incorporated	516835	Transit Distributing Inc. ....	624714
National Automation Ltd. ....	430020	Tri-Oak Sales Group Limited	613030
National Communication Supply Limited	567916	Tulloch & Wright Capital Limited	678031
National Harness Ltd. ....	555470	Vasilkir Hotels Limited	430456
Nestar Systems (Canada), Inc. ....	677906	Vehicle Management Ltd. ....	537403
New Shamrock Hotel (Toronto) Limited	146074	Vernon Brothers Cartage Ltd. ....	309647
Nijjar Taxi Limited	514876	Vespro Construction & Equipment Ltd.	517441
Nith Valley Farms Ltd. ....	354641	Vienna Beisl Restaurant Inc. ....	680323
Noiles Consultants Ltd. ....	564502	Week-End Sales Inc. ....	680907
North Yonge Piano Sales Limited	127909	Whatsa Bagel Enterprises Inc. ....	677518
Omni Educational Services Limited	554976	Wilf Fritz and Son Limited	259914
Omnia Pelts Inc. ....	455519	Wm. Frenken Construction Ltd. ....	632444
Orlena Inc. ....	612002	World-Wide Window Administration Ltd. ....	495553
Palsa Marketing Inc. ....	677321	122893 Ontario Limited	122893
Parish Holding Corporation Inc. ....	517246	288178 Ontario Limited	288178
Park Luxury Ontario Limited	593797	310934 Ontario Ltd. ....	310934
Pathcrest Developments Limited	470675	334219 Ontario Limited	334219
Paul Black Construction Ltd. ....	674679	347372 Ontario Limited	347372
Peregrine Yachts Inc	596206	347743 Ontario Limited	347743
Pomodoro Corporation	675925	394451 Ontario Ltd. ....	394451
Professional Aesthetic Educational Services Limited	672084	415603 Ontario Limited	415603
R & S Foundation Repairers Limited	672335	427128 Ontario Limited	427128
R.O.I. Maximization Inc. ....	490190	446440 Ontario Limited	446440
R.S. Liquidators Inc. ....	542874	446615 Ontario Ltd. ....	446615
R&N Painters and Decorators Ltd. ....	489503	455793 Ontario Limited	455793
Rayjay Sales Enterprises Ltd.	484358	456719 Ontario Limited	456719
Recork Developments Limited	296329	469643 Ontario Limited	469643
Reflections in Glass Limited	489602	472374 Ontario Inc. ....	472374
Rendor Ltd. ....	299810	489710 Ontario Limited	489710
RNR Investments Group Inc. ....	678047	499418 Ontario Ltd. ....	499418
Ronald Chatel Enterprises Inc. ....	631223	499710 Ontario Limited	499710
Royal York Auto Collision Ltd. ....	423730	509448 Ontario Limited	509448
RTC Engineering & Contracting Ltd. ..	259624	517132 Ontario Limited	517132
Saturna Yachts Inc. ....	649738	534131 Ontario Inc. ....	534131
Semloh Limited	314974	536474 Ontario Limited	536474
Show Laces Inc. ....	477397	538672 Ontario Inc. ....	538672
Skidco Ltd. ....	640287	548278 Ontario Limited	548278
Smith & Topping Limited	215634	557119 Ontario Limited	557119
Spurling Aluminum Limited	689278	559943 Ontario Limited	559943
Star of Canada Trading Inc. ....	619080	561990 Ontario Ltd. ....	561990
Still Spots Inc. ....	501597	563575 Ontario Inc	563575
Strathrose Limited	634987	563715 Ontario Ltd. ....	563715
Summerberry Investments Limited	387774	564870 Ontario Inc. ....	564870
Syncomp Office Systems Inc	682932	568698 Ontario Limited	568698
T. H. E. Computer System Services Inc.	490088	569657 Ontario Limited	569657
T. S. Kohli Enterprises Limited	411869	587270 Ontario Limited	587270
T.&S. Carpentry Limited	541023	590450 Ontario Inc.	590450
T.C. Willow Investments Inc./ Les Placements T.C. Willow Inc. ....	681372	593815 Ontario Inc. ....	593815
TCC Chemicals International Inc. ....	682274	594244 Ontario Inc.	594244
Tekarti Innovations Inc. ....	491271	596300 Ontario Inc.	596300
The Barthet Group Ltd. ....	680575	600917 Ontario Inc.	600917
The Canadian Printing Group Ltd. ....	564226	606409 Ontario Inc.	606409

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
608737 Ontario Limited .....	608737	677436 Ontario Limited .....	677436
624886 Ontario Limited .....	624886	677480 Ontario Limited .....	677480
625804 Ontario Inc. ....	625804	677536 Ontario Limited .....	677536
627257 Ontario Ltd. ....	627257	678134 Ontario Limited .....	678134
630417 Ontario Limited .....	630417	678344 Ontario Limited .....	678344
633923 Ontario Inc. ....	633923	678627 Ontario Limited .....	678627
634242 Ontario Inc. ....	634242	678774 Ontario Limited .....	678774
634941 Ontario Limited .....	634941	678817 Ontario Limited .....	678817
635067 Ontario Ltd. ....	635067	679423 Ontario Inc. ....	679423
635178 Ontario Inc. ....	635178	680419 Ontario Limited .....	680419
635410 Ontario Ltd. ....	635410	680433 Ontario Limited .....	680433
635448 Ontario Limited .....	635448	680435 Ontario Limited .....	680435
637414 Ontario Inc. ....	637414	680441 Ontario Limited .....	680441
653235 Ontario Limited .....	653235	680820 Ontario Limited .....	680820
656437 Ontario Limited .....	656437	680872 Ontario Limited .....	680872
670141 Ontario Ltd. ....	670141	681431 Ontario Inc. ....	681431
670147 Ontario Inc. ....	670147	716915 Ontario Ltd. ....	716915
673571 Ontario Inc. ....	673571	726729 Ontario Limited .....	726729
675826 Ontario Ltd. ....	675826	732918 Ontario Ltd. ....	732918
675853 Ontario Limited .....	675853	750 Burnhamthorpe Holdings Limited ..	679047
675867 Ontario Ltd. ....	675867		
676633 Ontario Ltd. ....	676633		
677428 Ontario Inc. ....	677428		

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DIANE S. NAGEL,  
Director, Companies Branch.

## Cancellation of Certificates of Incorporation (Corporations Tax Act Defaulters)

### Annulation de certificats de constitution

### (défaut d'observer la Loi sur l'imposition des personnes morales)

NOTICE IS HEREBY GIVEN that, under subsection 240 (3) of the *Business Corporations Act, 1982*, the Certificates of Incorporation of the corporations named hereunder have been cancelled by an Order dated 16 July, 1990 for default in complying with the provisions of the *Corporations Tax Act*, and the said corporations have been dissolved on that date.

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
A & A Sandblasting Limited .....	356677	Anselmo Art Studios & Associates Inc .	551944
A To Z Staffing Inc. ....	668020	Aoki Advertising Inc. ....	662978
A. J. Stewart Holdings Ltd. ....	667404	Apple Mold Inc. ....	596257
A. Verkaik Greenhouses Ltd. ....	536330	Ariad Investments Inc. ....	572867
A.R.C. Holdings Inc. ....	373973	Arjic Renovations & Investments Ltd. .	663128
Ab-Tech Research & Consulting Inc. ...	587219	Arro-Mac Manufacturing Inc. ....	512399
Abdron T. Inc. ....	586596	Aspen Rubber & Plastics Corp. ....	615058
Accurate Investigation Services Limited	575812	Auto-Motion Sales Inc. ....	359593
Aero Graphics Ent. Inc. ....	533227	Automotive Equipment Warehousing Inc. ....	571583
Agribusiness Limited .....	137948	Avanti Fitness Centres Inc. ....	672123
Air Tight Insulation Co. Ltd. ....	586518	B and C Carpentry Ltd. ....	380400
Alex Macdonald Variety and Gift Stores Limited .....	362136	B. S. Bhinder Insurance Agencies Limited .....	374085
Alternative Eatery Inc .....	583439	Babies 'n Bulk Ltd. ....	620615
Amfirst Corporation .....	664593	Banbase Investments Limited .....	271057
Amigos Hosteria Inc. ....	393045	Bargain Plastic & Neon Signs Ltd. ....	367146
Amoura Hair Design Ltd. ....	622105	Baseline Roofing & General Contracting Ltd. ....	664262
Anbow Marine Products Ltd. ....	404238	Bavaro Holdings Limited .....	585623
Ancaster Awings & Canvas Goods Ltd.	563571		
Andrea Renovation Limited .....	529186		



Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Bdinka Enterprises Inc. ....	660528	Cynant Holdings Ltd. ....	510550
Beaches Records & Tapes Ltd. ....	308795	D & L Oil Ltd. ....	584121
Beehive Canada Ltd. ....	663346	D. Smerhy Enterprises Ltd. ....	508897
Ben Chalk and Company Limited ....	379523	D.D.S. Landscaping & Contracting Limited ....	664726
Bentunn Holdings Ltd. ....	508810	D.W. Hartford Investments Limited ....	508276
Beren Marketing Ltd. ....	517810	Dale Holman Trucking Industries Inc. ..	513495
Better Electronics Ltd. ....	558378	Danbrie Moulded Plastics Ltd. ....	432858
Bill Jackson Enterprises Limited ....	623598	Darianne of Canada Ltd. ....	558700
Biolink Management Consultants Ltd. ..	591125	David Ashby Enterprises Limited ....	366287
BNF Enterprises Limited ....	537794	David Kestenberg Insurance Agency Inc. ....	568739
Bob Isen Agencies Limited ....	361676	Davine Building Products Limited ....	559835
Boutique Yamoto (Ontario) Ltd ....	664710	Decourcy Motels Limited ....	143298
Bravin Technologies Inc. ....	643818	Delhi Sports Centre Limited ....	234180
Brector Recon Ltd. ....	547221	Dinor Chocolat Inc. ....	663481
Brian McParlan Ltd. ....	443288	Dix and Sinnicks Incorporated ....	515033
Bridesburg Investments Limited ....	500197	Drew Roofing & Renovations Limited ..	711401
Bröck Jewellers Incorporated ....	235633	Drums in the Night Inc. ....	523104
Bruce Cormack Associates Limited ....	334099	Dudek Real Estate Inc. ....	359129
Bun Basket Bakery Ltd. ....	477534	DWA Company Ltd. ....	691668
Burlington Office Equipment Limited ..	127485	E. Fata Co. Ltd. ....	444744
Burnhamthorpe Computer Systems Ltd. .	663133	Ed Benenati's Rolling Stock Tire Supplies Limited ....	445001
Busy Bee Painting & Decorating Ltd ...	564162	EFM Consulting Inc. ....	569447
Bytown Dental Laboratories Ltd. ....	465407	Elias F. Bassile Corporation ....	410418
C.A.B. Carpenter Inc. ....	478150	Emporio Jewellers Ltd. ....	570025
Cafe International Ltd. ....	655217	Empress Development Corporation ....	519675
Cam Mar Coatings Inc. ....	663491	Encourse Inc. ....	445951
Canada Fasteners Ltd. ....	662516	Engaz Equities Inc. ....	637076
Canada Forgings Management Corporation ....	637743	Ernie McCulloch Company Limited ....	238238
Canada Machinery Corporation ....	622499	Euca Distributing Ltd. ....	517227
Canadian Power Development Corporation ....	661237	Everyware Computing Inc. ....	517612
Canadian Sales & Salvage Inc. ....	584447	Express Bookkeeping Services Inc. ....	509456
Cancilla Fruit Market Ltd. ....	386425	F. Merlo Equipment Rental Limited ....	635237
Canramsan Enterprises Inc. ....	583875	Federal Packaging Systems Inc. ....	583798
Captain Marvell Ice Cream Ltd. ....	655061	Fernhurst Investments Ltd. ....	448879
Car-U-Drive Company Limited ....	47064	Five Willows Ltd. ....	421452
Carronade Investments Limited ....	554736	Forecast Data Corporation ....	621606
Cateo Telecom Inc. ....	532888	Four Continents Travel Ltd. ....	662629
Catfish Holdings Limited ....	304429	Frances Seto Enterprises Ltd. ....	362134
Central Professional Building Limited ..	126165	Gary Addison Enterprises Limited ....	312978
Charome Investments Inc. ....	594533	Gary Hoffman Enterprises Ltd. ....	555055
Chateau St. Jerome Bar-B-Q Ltd. ....	549346	Gem Star Sales Ltd. ....	623321
Cher-Joy Crafts Limited ....	627746	Gemini Electric Company Limited ....	150400
Chermack Tourist & Resort Corp. ....	431505	Genbro Electric Ltd. ....	668109
CKS Property Limited ....	649595	George Street Properties of Brampton Limited ....	221864
Columbia Asphalt Paving Contracting Ltd. ....	469774	Givone International Ltd. ....	559895
Commisso Hair Salons Inc. ....	662003	Glenariff Management Inc. ....	383233
Conidis Bros. Ltd. ....	461843	Glerin Management Ltd. ....	444802
Connie Taylor Consulting Incorporated ..	547456	Global Ventures (Canada) Inc. ....	586564
Consumer Merchandising Group Limited ..	675205	Golden Mile Roofing Limited ....	665712
Consumers Enterprises Co. Ltd. ....	443562	Golden Rays Tanning Salons Ltd. ....	624963
Cooltec Coolers of Canada Limited ....	435610	Graham Energy Associates Inc. ....	586899
Cosgrove & Hodges Auto Repair and Machine Ltd. ....	476204	H. & E. Plating Limited ....	106164
Cosmic International Ltd. ....	583872	Haight & Willson China Ltd. ....	666602
Country Pure Corporation ....	667723	Harrou Investments Ltd. ....	609979
Countryside Food & Farm Market Ltd. .	616190	Havenridge Construction (1986) Limited	683127
Cove International Inc. ....	623271	Hercules Stone Ltd. ....	354953
Croissant Croissant Inc. ....	505077	Homecare Nursing Lab Services Inc. ....	663233
Crown Jules Holdings Limited ....	663446	Hubera Investments Ltd. ....	454062
Cuillin Productions Inc. ....	385383	Hublit Hotel Limited ....	118870

Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
I E C Technological Research Corporation .....	512406	Man-Sonic Industries Inc. ....	665622
I. Malogorski Trucking Ltd. ....	480570	Marcel J-P Pilon Investments Inc. ....	620532
Immondizia Incorporated .....	288011	Marscott Associates Limited .....	153655
Indoco Installations Ltd. ....	661603	McCartney-Brown Productions Ltd. ....	446461
International Display and Lighting Group Limited .....	554728	McNichol-Heitman Sales Ltd. ....	511951
Iris Chocolates Ltd. ....	664282	McPrint, Inc. ....	571708
Irvec Holdings Ltd. ....	526582	Meadowview Pools & Spas Inc. ....	622508
J. & S. Building Supplies Ltd. ....	475409	Media Finanz Canada Ltd. ....	664721
J. & T. Acoustics Ltd. ....	455466	Meredyth - Lynch Incorporated .....	619993
J. D. Reid and Associates Limited .....	151818	Merton Business Records Services Ltd. ....	525364
J. F. Goring Services Ltd. ....	357919	Metro Residential Care Incorporated ...	623836
J.A. Levine & Associates Ltd. ....	504810	Micor Graphics Inc. ....	425441
J.J. Whittier Estates (Windsor) Inc. ....	538147	Micro Bazaar Computer Inc. ....	620803
J.P. Rivard Farm Drainage Ltd. ....	414507	Mieske Contracting Limited .....	625479
Jadara Investments Inc. ....	332405	Minute Mail Inc. ....	664648
Jane Hall Inc. ....	517402	Modular Alliance Corporation .....	541465
JBS Management Group Limited .....	625607	Mos Stores Ltd. ....	539954
Jocelyn Robert Consultants Limited ....	664702	Mosash Investments Ltd. ....	478674
John Hunter Motors Limited .....	215476	Motor City Auto Export Limited .....	381871
John R Killick Associates Inc. ....	661692	MTCO Enterprises Inc. ....	683369
John Rosenbaum & Associates Ltd. ....	542410	Mulburry Properties Limited .....	519376
John S. Panos Enterprises Ltd. ....	508908	Murgor Oil & Gas Inc. ....	462448
Joyce Parsons Management Inc. ....	664459	Murray Longson Enterprises Ltd. ....	520075
Just in Time Leasing Inc. ....	570168	N.B.H. Inc. ....	547009
Kankitch Inc. ....	661726	Nevada II Entertainment Inc. ....	664741
Karen Wookey Holdings Limited .....	487280	Nieco Glass Inc. ....	567589
Kaye Property Management Services Inc. ....	541226	Nielsen-Degraaf Construction Limited ..	545060
Kee-Wis Inc. ....	661366	Noel Wild the Crimper Inc. ....	373532
Kelly Sales & Management Ltd. ....	292716	Norm Guillemette Construction Ltd. ....	382382
Ki-Ad Holdings Incorporated .....	658617	North York Ventilation Ltd. ....	475930
Kim-Ken Masonry Ltd. ....	390315	North-Video Distributors Inc. ....	547584
Kim-Kir Enterprises Ltd. ....	358987	Northwoods Steel Limited .....	412594
Kingspence Corporation Ltd. ....	369534	Nowack's Auto Repair Limited .....	241024
Kingston Tours & Shuttle Services Ltd. ....	544799	Nu Trend Transport Inc. ....	606539
Kitmeer Supermarket Limited .....	585614	Oakes Bakery Limited .....	461251
L & S Hunting Camp Limited .....	408435	Olde Ferry Inn Inc. ....	666601
L and A Holdings Inc. ....	253818	Omnex International Inc. ....	685706
L.D.T. Aluminium Prime Inc. ....	439944	Ontario Sprinkler Fabricators Limited ..	497884
L&T Upholstery & Interiors Ltd. ....	433707	Ontario Sprinkler Sales Ltd. ....	383924
Lafite Realty Inc. ....	582727	Ontario Woodwrights Inc. ....	656984
Lake of Gold Inc. ....	443285	Orionix Corporation .....	683926
Lakeshore Tourist Centre Inc. ....	513139	Ottawa Art Distributors, Inc. ....	550117
Lariot Distributors Inc. ....	492518	P. A. Rombos Pizzeria Inc. ....	385903
LDSG Packaging & Assembly Limited ..	658627	P.D.I. Structures (Ottawa) Inc. ....	661337
Leartech Inc. ....	694829	Pelmik Management Inc. ....	392229
Lifestyle Pursuit Inc. ....	569966	Pen & Scroll Inc. ....	622444
Lillie Translations Co. Ltd. ....	412922	Pendrith World Wide Developments Inc. ....	558220
Lisle Insulation Ltd. ....	411647	Perspective Development Corporation Limited .....	217630
Lookout Inn Limited .....	545897	Peter Maclean Holdings Ltd. ....	355962
Lorac Communications Consulting Inc. .	517336	Petters Auto Collision Limited .....	335447
Lyle Brown Limited .....	206495	Philip A. Gillies Consulting Limited ....	664931
Lyle Printing Limited .....	285547	Prazmowski, Ricker & Associates Ltd. .	490187
M & D Chapelle Management Inc. ....	572727	Presage Productions Inc. ....	658271
M Comp Inc. ....	453335	Price-Rite Auto Parts Ltd. ....	526941
M. J. S. Holdings Limited .....	124605	Procollect Inc. ....	571561
M.T. Compensation Consultants Ltd. ...	638282	Prospect Associates Inc. ....	664506
Macamar Productions Incorporated .....	564805	Quality Monograms Ltd. ....	506603
Macmor Inc. ....	667724	Radmor Services Inc. ....	584736
Magnum II Printing Inc .....	661091	Ram Machines Ltd. ....	488332
Malcolm's Mobile Meals Ltd .....	649728	Ram's Produce Ltd. ....	619295
		Rathny Developments Limited .....	95774
		Red Mill Theatre Company Inc. ....	506942

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Reuben's Foods Limited .....	267131	Torella/Bremner Communications	
Rilacrin Inc. ....	420799	Counsel Inc. ....	521824
Rimini Jewellers Limited .....	566358	Toronto Specialty Coatings Inc. ....	621397
Rio Grande Texas-Style BBQ and Fine Mexican Foods Limited .....	580976	Toronto Underground Contractors Limited .....	262430
Rodger Lodenquai Investments Inc. ....	662160	Travers Lift Trucks Holdings Ltd. ....	541045
Rokes Management Company Ltd. ....	444599	Tri-El Electric Ltd. ....	302699
Rudioso Investments Limited .....	663356	Turn-Key Realty Corp. Ltd. ....	335148
Safety Solutions Co. Inc. ....	599991	Unicorn Research Inc. ....	457733
Sandwich Tree (250 Dundas St. West) Inc. ....	664603	Unity Records Inc. ....	664622
Sapling Carpentry Limited .....	517714	Upper Canada Security Services Inc. ....	663119
Schlarb's K-W Meat Packers Limited ...	233579	Van Dam Farms Limited .....	236200
Selbrite Holdings Limited .....	318607	Vecken Consultants Inc. ....	564750
Select Models (St. Catharines) Limited .	516089	Victory Paving & Construction Co. Inc.	305702
Selord Investments Inc. ....	662600	Video Shoppe (Canada) Inc. ....	465250
Shark Software Design Inc. ....	591204	Vito's Cave of London Limited .....	205336
Shaw Driver Evaluation and Leasing Co. Ltd. ....	599686	W. B. Henry's Motel Limited .....	150519
Siciliano Import & Export Ltd. ....	375467	WAB Corporation .....	663549
Silver Dart Investments Ltd. ....	586137	Wentworth Music Studios Limited .....	255603
Small Fry Parcel & Cartage Limited ....	463023	Werger & Partners Inc. ....	580486
Sonar Security Systems Ltd. ....	663382	Westfield Holdings Inc. ....	618840
South River Veneer Inc. ....	666313	Westside Plumbing & Heating of Windsor Limited .....	242642
Space Boats Inc. ....	581873	WHG Enterprises Limited .....	420944
Spirit of Independence Music Corp. ....	304128	Willaude Properties Limited .....	662020
Spruce Tree Construction Limited .....	382833	Wilro Management Inc. ....	614534
SRB Software Corp. ....	624792	Woodward Shell Service Inc. ....	545438
Starworld Video Incorporated .....	603420	Yau Wing Herbs Centre Ltd. ....	478732
Stately Way Developments Inc. ....	508267	Zealot Sales & Services Limited .....	502873
Stephen M. Wallis Enterprises Limited .	622011	269585 Ontario Limited .....	269585
Straddle Technologies Inc .....	580496	292328 Ontario Limited .....	292328
Strategic Products Inc. ....	661209	332289 Ontario Inc. ....	332289
Sujay Tea Products Inc. ....	641749	349756 Ontario Limited .....	349756
Super Driver's Service Ltd. ....	602246	356515 Ontario Limited .....	356515
Superior Wood Finishing Co. Ltd. ....	551633	356708 Ontario Limited .....	356708
Supreme Business Services Ltd. ....	667208	357917 Ontario Limited .....	357917
Swanberg/Cevallos Enterprises Inc. ....	667697	384016 Ontario Limited .....	384016
Sweethaven Investments Limited .....	476792	405868 Ontario Limited .....	405868
T.E.V.I.M.A. Investments Limited .....	382803	408997 Ontario Limited .....	408997
T.H.I.N.K. Limited .....	510769	418591 Ontario Limited .....	418591
Taaffe Mechanical Ltd. ....	639725	428908 Ontario Inc. ....	428908
Tanedesigns Ltd. ....	638668	431677 Ontario Limited .....	431677
Taylor-Myers Investments Inc. ....	664865	433583 Ontario Limited .....	433583
Techplas Ltd. ....	688680	436399 Ontario Inc. ....	436399
The Dunvegan Apartments Limited ....	506535	440188 Ontario Limited .....	440188
The First Canadian Tire & Rubber Company Limited .....	657746	444493 Ontario Inc. ....	444493
The First Gulf Currency Corporation ...	605686	446268 Ontario Limited .....	446268
The Gandalf Contract Services Group Limited .....	664922	446551 Ontario Limited .....	446551
The Group of 1947 Inc. ....	664512	447017 Ontario Limited .....	447017
The Kitchen Perspective Inc .....	655501	447370 Ontario Limited .....	447370
The Other Woman Ltd. ....	444434	451418 Ontario Limited .....	451418
The Stove & Fireplace Inn Ltd. ....	443150	457482 Ontario Limited .....	457482
The Wall Network Inc. ....	664910	468082 Ontario Limited .....	468082
The World's Smallest Department Store Ltd. ....	663165	472612 Ontario Limited .....	472612
Thermo Stack & Breeching Limited ....	397667	475489 Ontario Limited .....	475489
Thermo-Roll Inc. ....	436508	475616 Ontario Limited .....	475616
Tiac Corporation .....	662027	476856 Ontario Inc. ....	476856
Top of the Hill Restaurant Ltd. ....	373727	477048 Ontario Inc. ....	477048
		477473 Ontario Limited .....	477473
		478151 Ontario Limited .....	478151
		478525 Ontario Inc. ....	478525
		493221 Ontario Limited .....	493221
		497408 Ontario Limited .....	497408



Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
503542 Ontario Inc. ....	503542	602374 Ontario Ltd. ....	602374
509256 Ontario Inc. ....	509256	607861 Ontario Inc. ....	607861
512902 Ontario Ltd. ....	512902	609121 Ontario Ltd. ....	609121
515299 Ontario Ltd. ....	515299	612435 Ontario Inc. ....	612435
515386 Ontario Limited ....	515386	614705 Ontario Inc. ....	614705
517194 Ontario Limited ....	517194	614715 Ontario Limited ....	614715
517423 Ontario Limited ....	517423	615170 Ontario Inc. ....	615170
517717 Ontario Limited ....	517717	616179 Ontario Inc. ....	616179
518243 Ontario Limited ....	518243	618173 Ontario Limited ....	618173
519398 Ontario Limited ....	519398	618819 Ontario Ltd. ....	618819
521756 Ontario Ltd. ....	521756	620269 Ontario Ltd. ....	620269
523002 Ontario Inc. ....	523002	620303 Ontario Inc. ....	620303
525992 Ontario Limited ....	525992	621274 Ontario Inc. ....	621274
535054 Ontario Inc. ....	535054	622217 Ontario Limited ....	622217
536401 Ontario Inc. ....	536401	622477 Ontario Inc. ....	622477
537205 Ontario Inc. ....	537205	623680 Ontario Limited ....	623680
538160 Ontario Inc. ....	538160	624810 Ontario Limited ....	624810
538868 Ontario Inc. ....	538868	625408 Ontario Limited ....	625408
541947 Ontario Limited ....	541947	627406 Ontario Ltd. ....	627406
544587 Ontario Limited ....	544587	642528 Ontario Limited ....	642528
547617 Ontario Limited ....	547617	655065 Ontario Inc. ....	655065
547706 Ontario Inc. ....	547706	655100 Ontario Limited ....	655100
547743 Ontario Limited ....	547743	661211 Ontario Inc. ....	661211
548072 Ontario Inc. ....	548072	661408 Ontario Limited ....	661408
548466 Ontario Limited ....	548466	661412 Ontario Limited ....	661412
548818 Ontario Inc. ....	548818	661662 Ontario Inc. ....	661662
550021 Ontario Limited ....	550021	661663 Ontario Inc. ....	661663
554638 Ontario Inc. ....	554638	661668 Ontario Inc. ....	661668
556743 Ontario Limited ....	556743	661818 Ontario Limited ....	661818
558503 Ontario Limited ....	558503	661935 Ontario Limited ....	661935
561111 Ontario Limited ....	561111	662102 Ontario Limited ....	662102
561141 Ontario Ltd. ....	561141	662103 Ontario Ltd. ....	662103
563371 Ontario Inc. ....	563371	662488 Ontario Inc. ....	662488
563812 Ontario Limited ....	563812	662513 Ontario Inc. ....	662513
564429 Ontario Inc. ....	564429	662548 Ontario Limited ....	662548
568891 Ontario Limited ....	568891	662553 Ontario Inc. ....	662553
571260 Ontario Inc. ....	571260	662601 Ontario Inc. ....	662601
571596 Ontario Inc. ....	571596	662635 Ontario Inc. ....	662635
576177 Ontario Ltd. ....	576177	662922 Ontario Limited ....	662922
578268 Ontario Inc. ....	578268	662997 Ontario Limited ....	662997
581914 Ontario Inc. ....	581914	663112 Ontario Limited ....	663112
584516 Ontario Inc. ....	584516	663134 Ontario Ltd. ....	663134
584698 Ontario Inc. ....	584698	663163 Ontario Limited ....	663163
584744 Ontario Limited ....	584744	663503 Ontario Ltd. ....	663503
584887 Ontario Inc. ....	584887	664607 Ontario Ltd. ....	664607
586498 Ontario Limited ....	586498	668113 Ontario Limited ....	668113
586763 Ontario Limited ....	586763	697631 Ontario Limited ....	697631
587266 Ontario Limited ....	587266	702576 Ontario Ltd. ....	702576
588796 Ontario Limited ....	588796	703306 Ontario Inc. ....	703306
592468 Ontario Inc. ....	592468	707478 Ontario Inc. ....	707478
595975 Ontario Limited ....	595975		
596186 Ontario Limited ....	596186		
596321 Ontario Limited ....	596321		

32/90

DIANE S. NAGEL,  
Director, Companies Branch.

## Change of Name Act Loi sur le changement de nom

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending July 20th, 1990. The listing below shows the previous name followed by the new name.

AVIS EST PAR LA PRÉSENTE DONNÉ que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 20 juillet 1990. La liste ci-dessous indique les anciens noms suivis par les nouveaux noms.

Abdul, Sameena, Lisa — Boodram, Sameena Lisa.  
Abernethy, Terri-Jeanne — Morrish, Terri-Jeanne.  
Albert, Tammy, Gail — Albert-Walters, Tammy, Gail.

Anderson, Laura, Lee — Mattis, Laura, Lee.  
Aranha, Diana, Norma, Rita, Pushpa — Machado, Diana, Norma, Rita, Pushpa.

Archer, Susan, Darlene — Stolz, Susan.

Baekken, Jorunn, Hilde — Baekken McKenzie, Jorunn, Hilde.

Barongan, Benilda, Conducto — Laberinto, Benilda, Conducto.

Bassant, Kumarie — Latchman, Kumarie.

Beaton, Phyllis — Vazquez, Phyllis.

Beaulieu, Gabrielle, Lise, Marie, Henriette — Laramée, Gabrielle, Lise, Marie, Henriette.

Benton, Verna, Joyce — Houston, Verna, Joyce.

Bezemer, Suzanne, Elizabeth — Sutherland, Suzanne, Elizabeth.

Biel, Dorota, Alicja — Styrzula-Masniak, Dorota, Alicja.

Bisram, Sharmilla, Aretha — Khan, Sharmilla, Aretha.

Bisson, Louise — Romano, Louise.

Bogatek, Bogdan, Tadeusz — Mulyk, Bogdan, Tadeusz.

Bolder, Sheryl, Louise — McRae, Sheryl, Louise.

Boltysky, Fira, Yosifovna — Kislyanski, Fira, Yosifovna.

Booth, Vivian, Laraine — Galbraith, Vivian, Laraine.

Bosma, Lisa, Marie — Hogeveen, Lisa, Marie.

Boult, Lisa, Caren — Boult, Elisabeth, Caren.

Breakenridge, Tammy, Nanna — McNeil, Tammy, Nanna.

Brown, Catherine, Anne — Brown-Ratcliffe, Catherine, Anne.

Brown, Heather, Mariea — Leduc, Heather, Mariea.

Brown, Valerie, Dianne — Rivers, Valerie, Dianne.

Budd, Sharon, Anne — Dunbar, Sherrie, Ann.

Burbine, Patricia, Ann — Kayorie, Patricia, Ann.

Burnham, Helen, Margaret — Bretzke, Helen, Margaret.

Bush, David, William — Bush, Heather, Denise.

Camelon, Mary, Rose — Chevalier, Mary, Rose.

Campbell, Babara, Louise — Odenthal, Barbara, Louise.

Cannon, Teresa, Jo-Anne — MacArthur, Teresa, Jo-Anne.

Carlson, Sandra, Ruth — Leckie, Sandra, Ruth.

Carvish, Judith, Diane — MacPhee, Judith, Diane.  
Castaneda, Rachel, Jane — Caluste, Rachel, Jane.  
Catalano, Olga, Mary — Catalano Leyman, Olga, Mary.

Caughill, Shirley, May — Ramsbottom, Shirley, May.

Caverhill, Olive, Eleanor — Caverhill, Eleanor.

Cefaratti, Amanda — Broughton, Amanda, Leigh.

Chau, Carly — Leung, Carly.

Chin Sue, Ceceila, Shirley — Chang, Ceceila, Shirley.

Chmela, Glenn, Gary, Walter, Matthew — Courtland, Glenn, Gary, Walter, Matthew.

Chmielinska, Teresa — Limowski, Teresa.

Ciccarelli, Carol, Lynn — Boccia, Carol, Lynn.

Claude, Angela, Jean — Davidson, Angela, Jean.

Collins, Christina — Menke, Christina.

Collins, Suzanne, Carole — Therrien, Suzanne, Carole.

Cook, Katharine Rachel — Pattison, Katharine, Rachel.

Corbett, Judith, Anne — Weatherell, Judi, Anne.

Cornellier, Christine, Edith, Maria — Curran, Christine, Edith, Maria.

Corcadden, Susan, Jane — Di Poce, Susan, Jane.

Couvillion, Richard, Wallace — Leonard, Richard, Wallace.

Cowin, Lorna, Trudy — Flannigan, Lorna, Trudy.

Cox, Shawn, Michael — Cox-Dauphin, Shawn, Michael.

Cruz, Arlene, Reyes — Alvaran, Arlene, Reyes.

Cuggy, Sharon, Mary, Lynne — Vanden Beek, Sharon, Mary, Lynne.

Culhane, Aileen, Frances — Culhane Pentland, Aileen, Frances.

Dafre, Marli — Dafre Soares, Marli.

Dalcourt, Nancy, Sheila, Marie — Haar, Nancy, Sheila, Marie.

Daley, Jayne, Elizabeth — Cascagnette, Jayne, Elizabeth.

Datta, Kristina, Nabanita — Coens, Kristina, Nabanita.

Davies, Linda, Ruth — Clarkson, Linda, Ruth.

Davis, Dawn, Jeanne — Gannon, Dawn, Jeanne.

Day, Stacey, Ellen — Clarke, Stacey, Ellen.

De Carli, Loretto, Anne — Vella, Loretto, Ann.

De Oliveira, Arilda, Fernandes — O'Connor, Arilda, Fernandes.

Denommee, Richard, Joseph — Sametz, Richard, Joseph.

Diceman, Shelley, Lyn — Kaastra, Shelley, Lyn.

Dixon, Fern, Colleen — Charron, Fern, Colleen.

Donald, Agnes, Edgar, McAleece — Burleigh, Agnes, Edgar, McAleece.

Douglas, Amy, Melissa — Marth, Amy, Melissa.

Dowse, Perpetua, Fidelma — Lynch, Perpetua, Fidelma.

Duck, Marlene, Margaret — Lightfoot, Marlene, Margaret.

Dunklee, Andrea, Lynn — Bower, Andrea, Lynn.

Durocher, Marie, Marcelle, Jeannine, Denise — Genge, Marie, Marcelle, Jeannine, Denise.

Dye, Karen, Louise — Syptak, Karen, Louise.

Dykstra, Richelle, Elizabeth — Young, Richelle, Elizabeth.

Easun, Pamela, Shelly — Gray, Pamela, Shelly.

- Elliott, Lois, Wilma — Hennigar, Lois, Wilma.  
 Emmanuelpillai, Ida — Vethanayagam, Ida.  
 Endersby, Barbara, Lynne — Bazylewski, Barbara, Lynne, Marie.  
 Ethier, Paulette, Anita — Erfle, Paulette, Anita.  
 Evans, Karin — Tenny, Karin.  
 Ezekiel, Jodi, Mae — Slingsby, Jodi, Mae.  
 Farrell, Marylyne, Jane — Farrell, Marilynne, Jane.  
 Farrington, Ellen, Gertrude — Farrington-Stord, Ellen, Gertrude.  
 Faulkner, Mary, Theresa — Thomson, Mary, Theresa.  
 Fogarty Banville, Carol, May — Harding, Carol, May.  
 Forrest, Tamara, Roxanne — Tailor, Tamara, Roxanne.  
 Fraser, Lonny, Vernon — Gelinass, Lonny, Vernon.  
 Froy, Karen, Lynn — Robinson, Karen, Lynn.  
 G/Kidan, Saba. G/Hiwoat — W/Selassie, Yeworkwuha.  
 Gianakakos, Sophia — Traiches, Sophia.  
 Gill, Jo-Ann, Marlene — Ray, Jo-Ann, Marlene.  
 Gilmer, Tracey, Elizabeth — Stewart, Tracey, Elizabeth.  
 Ginn, Judith, Juanita — Costello, Judith, Juanita.  
 Glebocka, Liliana — Czupryna, Lilliana.  
 Gooch, Christopher, James — Campbell, Christopher, James.  
 Gooch, Jean, Alcorn — Campbell, Jean, Alcorn.  
 Gooch, Sheri, Lynn — Campbell, Sheri, Lynn.  
 Goodfellow, Carol, Ann — Jay, Carol, Ann.  
 Gordon, Philip, William — Princetown, Philip, William.  
 Graham, Jennifer, Lynne — Smith, Jennifer, Lynne.  
 Graham, Tracey, Diane — Snoddon, Tracey, Diane.  
 Granato, Maria, Cristina — Charbonneau, Maria, Cristina.  
 Griffin, Susan, Patricia — Burdey, Susan, Patricia.  
 Gumbs, Yolanda — St. Juste, Yolanda.  
 Gust, Donna, Evelyn — Duffin, Donna, Evelyn.  
 Haddock, Michelle, Marie — Brown, Michelle, Marie.  
 Hadlow, Sandra, Jean — Hamilton, Sandra, Jean.  
 Hall, Barbara, Ann — Phillip-Brown, Barbara, Ann.  
 Hall, Duran, Roberto, Oliver — Hall-Ferguson, Duran, Roberto, Oliver.  
 Hannigan, Karen, Lynn — Barrett, Karen, Lynn.  
 Hannula, Holly, Beverly — Muir, Holly, Beverly.  
 Hansler, Audrey, Dorothea — Boylan, Audrey, Dorothea.  
 Hargreaves, Ruth, Ellen — Chilco, Ruth, Ellen.  
 Hatch, Elizabeth, Mary-Grace — Williams, Elizabeth, Mary-Grace.  
 Hecimovic, Anna — Mamic, Anna.  
 Hellings, Christopher, William — Starr, Damin.  
 Henderson, Wanda, Ann — Foerstsich, Wanda, Ann.  
 Herrler, Shelley, Ann — Jupp, Shelley, Ann.  
 Hiltz, Ruth, Helen — Gardner, Ruth, Helen.  
 Hirvasoja, Tarja, Maureen — De Rose, Tarja, Maureen.  
 Hodgson, Scott, Thomas — Gostick, Scott, Thomas.  
 Howard, Terry-Lee, Lynn — Moses, Terry-Lee, Lynn.  
 Huber, Donna, Marie — Paulvetzian, Donna, Marie.  
 Hull, Tracy, Lynn — Ouellette, Tracy, Lynn.  
 Human, Karen, Lynn — Hannigan, Karen, Lynn.  
 Hunter, Joan, Elizabeth — Hunter-Wallace, Joan, Elizabeth.  
 Hylands, Robert — Yuile, Robert.  
 Ismail, Gulshen, Ahamad — Saleh, Gulshen, Ahamad.  
 Ivanovsky, Carole — Zolis, Carole.  
 Jabar, Bibi, Waheeda — Amin, Bibi, Waheeda.  
 Jean, Diane, Marie — Jean-Courville, Kim, Marie.  
 Jeffery, Sharon, Ruth — Charlton, Sharon, Ruth.  
 Jensen, William, Lawrence — Jensen, William, Hillary.  
 Johnson, Kim, Louise — Andrews, Kim, Louise.  
 Johnuph, Rhoda — Lowe, Rhoda.  
 Jolymore, Clayton, William — Drury, Clayton, William.  
 Jones, Gwyneth, Elizabeth — MacKay, Gwyneth, Elizabeth.  
 Keck, Tabatha — Graveline, Tabatha.  
 Kelly, Michelle, Anne — Bogema, Michelle, Anne.  
 Kempt, Joshua, Ellis — Millar, Joshua, Henry.  
 Khan, Bibi, Miriam — Ally, Bibi, Miriam.  
 Khoo, Joyce, Heather — Bakazias, Joyce, Heather.  
 Kingston, Suzanne, Elizabeth — Lamont, Suzanne, Elizabeth.  
 Kiraly, Anna, Maria — Peto, Anna, Maria.  
 Kirk, Wendy, Mae — Kirk, Wendy, Mae.  
 Klein, Eva, Clara — Storck, Eva, Clara.  
 Klygo, Agnes, Monica — Ryckman, Agnes, Monica.  
 Konnaia, Elina, Igorevna — Alter, Elina, Igorevna.  
 Kotadia, Nimrose — Khakoo, Nimrose.  
 Kulpa, Renata, Elzbieta — Paredes-Gil, Renata, Elzbieta.  
 Lagrotta, Daniela — Pileggi, Daniela.  
 Laing, Karen, Wynn — Leishman, Karen, Wynn.  
 Lambert, Teresa, Marie — Poirier, Teresa, Marie.  
 Lampart, Ewa — Zajac, Ewa.  
 Lancaster, Catherine, Ann — Au, Catherine, Ann.  
 Larsen, Marianne — McPhee, Marianne.  
 Larue, Marie, Therese, Anita — Picard-Larue, Therese, Anita.  
 Lawrence, Cheryl, Anne, Mae — Lawrence-Holmes, Cheryl, Anne, Mae.  
 Leask, Ellen, Sophia — Becker, Ellen, Sophia.  
 Leclerc, Lorrie, Mary, Ann — Kahle, Lorrie, Mary, Ann.  
 Lee, Yiu, Fai — Lee, Alec, Paul, Yiu-Fai.  
 Levi, Cheryl, Ann — Woods, Cheryl, Ann.  
 Lewis, Christina, Monique — Stephen, Christina, Monique.  
 Lewis, Maureen, Ruth — Taylor, Maureen, Ruth.  
 Lewis, Natalie — Potvin, Natalie.  
 Ley, Travis, Grant, Turner — Turner, Travis, Grant.  
 Li, Hong, Xia — Li-Tran, Hong, Xia.



- Lindberg, Tara, Marie — Lindberg-Davies, Tara, Marie.
- Lindhout, Pieter, Henry, Lennert — Lindhout, Pieter, Hendrik, Leendert.
- Liverance, Susan, Linda — Steffler, Susan, Linda.
- Lockhart, Julia, Hildrey — Sly, Julia, Hildrey.
- Lonsberry, Locky, Garry — Gelinas, Locky, Garry.
- Lopez-Zapien, Laura, Luz — Boyce, Laura, Luz.
- Lopopolo, Giovanni — Sumitt, Jonathan.
- Lourenco, Margaret, Fartas — Rodrigues, Margaret, Ann, Freitas.
- Lui, Pik, Man, Angela — Mao, Pik, Man, Angela.
- Lutes, Kathleen, Dawn — Lingley, Kathleen, Dawn.
- Lymer, Julie, Ann — Babcock, Julie, Ann.
- Ma, The — Ma-Du, The.
- MacDonald, Karry, Lynn — Hinzman, Karry, Lynn.
- MacKinnon, Kristen, Michelle — Boone, Kristen, Michelle.
- MacDonald, Darlene, Jane — Cochrane, Darlene, Jane.
- Macri, Chiara — Stagliano, Chiara.
- Maldonado, Marcela, Eliana — Rojas, Marcela, Eliana.
- Manns, Anita, Sally — Jones, Anita, Sally.
- Marcellus, Nancy, Louise — Currie, Nancy, Louise.
- Margerum, Kathrine, Charlene — Ceccotti, Kathrine, Charlene.
- Martin, Joanne, Marie — Pace, Joanne, Marie.
- Martin, Lisa, Cavell — Hart, Lisa, Cavell.
- Matulaitis, Laima, Kazimiera — Scott, Laima, Kazimiera.
- Maunder, Nancy, Ann — Wallis, Nancy, Ann.
- McDonnell, Michelle, Catherine — Hicks, Michelle, Catherine.
- McCalden, Catherine, Elizabeth — Albinet, Catherine, Elizabeth.
- McColl, Iona, Jean — Thompson, Iona, Jean.
- McConnell, Nancy, Lynn — Nelson, Nancy, Lynn.
- McKay, Annanias — McKay, Roddy, Annanias.
- McKendry, Celena, Lee-Ann — Creedon, Celena, Lee-Ann.
- McMillan, Laura, Anne — D'Angelo, Laura, Anne.
- McPherson, Pauline, Imogene — McPherson-Roberts, Pauline, Imogene.
- Merida Monzon, Claudia, Aracely — Menjivar, Claudia, Aracely.
- Messam, Retinella, Beatrice — Francis, Retinella, Beatrice.
- Micallef, Gail, Ann, Marie — O'Brien, Gail, Ann, Marie.
- Minaker, Elizabeth, Susanne — Lyons, Elizabeth, Susanne.
- Mitchell, Sharon, Geraldine — Cook, Sharon, Geraldine.
- Modzelewska, Krystyna, Ewa — Kaminski, Krystyna, Ewa.
- Moore, Dorothy, Arlene — Dorey, Dorothy, Arlene.
- Morrison, Joshua, Duncan — Gordon, Joshua, Duncan.
- Morton, Mary, Louise — O'Hearn, Mary, Louise.
- Mullen, Dawn, Lynn — Mustin, Dawn, Lynn.
- Mumford, Patricia, Blaize — Bissett, Patricia, Blaize.
- Mundley, Carol, Margreta — Bennett, Carol, Margreta.
- Murray, Denise, Maxine — Murray-Robinson, Denise, Maxine.
- Murtagh, Rose, Mary — Martin, Rose, Mary.
- Nacsa, Krisztina, Erzsebet — Higham, Krisztina, Erzsebet.
- Nandha, Charan, Kaur — Thind, Charan, Kaur.
- Nastareiwich, Morris — Nestor, Melvin.
- Nastareiwich, Wasylna — Nestor, Lena.
- Nedakis, Mary — Nedakis-Coretti, Mary.
- Neill, Dawn, Marie — Baerwinkel, Dawn, Marie.
- Neufeld, Maria, Elizabeth — Banman, Maria, Elizabeth.
- Ngan, Tin, Man — Yau, Tin, Man.
- Nootchtai, Andrew, James, Zane — Commanda, Andrew, James, Zane.
- Nootchtai, Bradely, Gavin — Commanda, Bradely, Gavin.
- Nootchtai, Jasmine, Martha — Commanda, Jasmine, Martha.
- Norris, Paul, Bradley — Wolfe, Paul, Bradley.
- Onyszkewycz, Bohdan, Stephan — Onyskay, Bohdan, Stephen.
- Onyszkiewicz, Magdalena, Anna — Cristiano, Magdalena, Anna.
- Ormesher, Mary, Denise — Carson, Mary, Denise.
- Padalino, Tiziana, Eugenia — Padalino Fathers, Tiziana, Eugenia.
- Palango, Elizabeth, Irene, MacDonald — Millar, Elizabeth, Irene, MacDonald.
- Palmerio, Antonella — Palmerio Birnie, Antonella.
- Pander, Brenda, Aileen — Pander-Scott, Brenda, Aileen.
- Patience, Sheila, Maureen — Sharer, Sheila, Maureen.
- Patten, Tracy, Lynn — Johnston, Tracy, Lynn.
- Patterson, Beth, Mary — Leighton, Beth, Mary.
- Periyathamby, Himalini — Sritharan, Himalyny.
- Perkins, Floyd, Allen — Caul, Floyd, Allen.
- Perl, Alexandru, Cristian — Perl, Chris, Alex.
- Peter, Jessie, Elizabeth — Tyrrell, Jessie, Elizabeth.
- Phillip, Barbara, June — Logan, Barbara-Jene.
- Phillip, Jillian, Rene — Logan, Jillian-Renee.
- Pipa, Alison, Gay — Nankivell, Alison, Gay.
- Policnik, Stacy-Lori — Policnik-Michel, Stacy-Lori.
- Por, Marija-Bernardka — Davidson, Marija-Bernardka.
- Preto, Maria, Isabel — Harripaul, Maria, Isabel.
- Quesnel, Tammy, Lynn — Whitewick, Tammy, Lynn.
- Radvanyi, Lynda, Marie — Kelly, Linda, Marie.
- Ratcliffe, Wilfred, Graham — Brown-Ratcliffe, Wilfred, Graham.
- Recoskie, Florence, Rosemarie — Rumleski, Florence, Rosemarie.
- Reid, Helen, Janet — Wood, Helen, Janet.
- Reid, Joan, Gwendolyn — Swatton, Joan, Gwendolyn.
- Renaud, Marie, Therese, Anne — Cleary, Marie, Therese, Anne.

- Rhodenizer, Pauline, Lillas — Boucher, Pauline, Lillas.
- Richardson, Patricia, Lynn — Wynne, Patricia, Lynn.
- Ritcey, Karen, Jane — Noxon, Karen, Jane.
- Rivera, Lucrecia, Ileana, Polanco — Wilkinson, Lucrecia, Ileana, Polanco.
- Roberts, Kimberley, Ann — Buchanan, Kimberley, Ann.
- Roberts, Lorraine — Smardon, Lorraine.
- Robinson, Sheryl, Ann — Robinson-Kenner, Sheryl, Ann.
- Rolston, Shanna, Star — Cutting, Shanna, Star.
- Rondeau, Christopher, Michael — Knapton, Christopher, Michael.
- Routley, Brenda, Lee — McCarter, Brenda, Lee.
- Rubio, Elsa, Leticia — Sorto, Elsa, Leticia.
- Runstedler, Elizabeth, Anne — David, Lisa, Anne.
- Ruttan, Muriel, Edna — Vaughan, Muriel, Edna.
- Sabapathippillai, Ganeswary — Niranjana, Ganeswary.
- Sample, Tammy, Lynn — Song, Tammy, Lynn.
- Sarhan, Debra, Lynn — Hannon, Debra, Lynn.
- Savas, Vassiliki — D'Onofrio, Vassiliki.
- Scales, Norman, James — Whan, Norman, James.
- Scenna, Clara — Paines, Clara.
- Schwenk, Hilary, Anne, Holledge — Valliant, Hilary, Anne, Holledge.
- Scott, Kelly, Lynn — Scott Sanderson, Kelly, Lynn.
- Secord, Catherine, May — Secord-Swann, Catherine, May.
- Shaughnessy, Teresa, Marie — Bothwell, Teresa, Marie.
- Shaw, Doris, Deloris — Shaw-Ferguson, Doris, Deloris.
- Sheeran-Smith, Bernadette, Mary — Sheeran, Bernadette, Mary.
- Sheppard, Carolyn, Lois — Sheppard Cocchio, Carolyn, Lois.
- Simms, Lori, Anne, Patricia — Byrne, Lori, Anne, Patricia.
- Singh, Harinder — Abrol, Harinder, Singh.
- Sklepokowycz, Christina, Marie — Dashko, Christina, Marie.
- Slabodkin, Deborah, Anne — Dent, Deborah, Anne.
- Sladkowski, Diana, Cheryl — Megaffin, Diana, Cheryl.
- Smith, Leslie, Maureen — Cote, Leslie, Maureen.
- Smith, Rosanne, Lee — Foster, Rosanne, Lee.
- Smoke, Candy, Lee — Niles, Candy, Lee.
- Snee, Craig, William — McIntyre, Craig.
- Sonley, Heather, Maria — Fowler, Heather, Maria.
- Sookraj, Shanie, Bhinwattee — Van Rossum, Shanie, Bhinwattee.
- Spyksma, Lolkje, Elisabeth — Van Harten, Lolkje, Elisabeth.
- St Michael, Lillian — Burns, Lillian.
- Steele, Tina, Danielle — Givens, Tina, Danielle.
- Stewardson, Martha, Jane — Pocrnich, Martha, Jane.
- Stibler, Sharon, Joy — Wilson, Sharon, Joy.
- Stokes, Ann, Janis — Sills, Ann, Janis.
- Suryadhay, Sisamone — Chittapong, Sisamone.
- Tam, June, Wai, Ching — Kwong, June, Wai, Ching.
- Tandoh, Nana, Kow, Adanu — Kuffuor, Nana, Kow, Addo, Tandoh.
- Tandoh, Nana, Kweku, Adanu — Kuffuor, Kweku, Asamoah, Tandoh.
- Taschereau, Marie, Phyllis, Lianne — Raymond, Marie, Phyllis, Lianne.
- Taylor, Udalee — Williams, Udalee.
- Teixeira, Isaura, Dos Santos — Teixeira Viveiros, Isaura, Dos Santos.
- Thomas, Barbe — Arbour, Barbe.
- Thomopoulos, Danielle, Louise — Thomas, Danielle, Louise, Thomopoulos.
- Thompson, Jane, Marie — McComb, Jane, Marie.
- Thong, Yong — Thong, James.
- Tipping, Judith, Lurene — Cook, Judith, Lurene.
- Torres, Margaret, Anna, Alice — Near, Margaret, Anna, Alice.
- Tudosa, Viorica — Cenuser, Viorica.
- Turek, Lidia, Malgorzata — Skruch, Lidia, Malgorzata.
- Tynes, Sharon-Lynn — Tynes-Constantine, Sharon-Lynn.
- Van De Ven, Alojisa, Johanna, Margaretha — Klaase, Alojisa, Johanna, Margaretha.
- Van Nieuwkuyk, Vanessa, Mary — Day, Vanessa, Mary.
- Vandemark, Deborah, Ann — James, Deborah, Ann.
- Varga, Dianne, Marie — Varga, Dyan, Marie.
- Vecchi, Ines, Sindy — Botterweg, Ines, Sindy.
- Verville, Sharon, Ann — Draper, Sharon, Ann.
- Vesic, Katerina — Matovska, Katerina.
- Vesic, Zorica — Matovska, Zorica.
- Vivekananda, Gobii — Vivagananda, Gobii.
- Vivekananda, Pavalaranee — Vivagananda, Pavalaranee.
- Vivekananda, Subramaniam — Vivagananda, Subramaniam.
- Vlasits, Daniel, Ernest — Hudak, Daniel, Ernest.
- Waddling, Nancy, Elizabeth — Walters, Nancy, Elizabeth.
- Wagner, Michael, Christopher, Shane — Allen, Jessie, Michael, Shawn, Bruce.
- Walker, Michael, Garrett — McCaw, Michael, Garrett.
- Watmore, Jasper, Lionel — Watmore, Jack, Lionel.
- Waycik, Virginia — Gledhill, Virginia.
- Webber, Wendy, Lynn — Jackman, Wendy, Lynn.
- Weissmann, Michael, Jacob — Callahan, Michael, Thomas.
- Whitaker, Marney, Ruth — Harvey, Marney, Ruth.
- Whitecross, Lisa, Catherine — Tiedtke, Lisa, Catherine.
- Wicks, Ronald, William, Albert — Lindeman, Ronald, William, Albert.
- Willis-O'Connor, Catherine — Murphy, Catherine.
- Wilson, Sheri, Lee — Killam, Sheri, Lee.
- Woo, Amelia, Meng, Kai — Woo-Wong, Amelia, Meng, Kai.
- Woodcox, Donald, Everett — Woodcock, Donald, Everett.

Wyzga, Anna, Maria — Wyzga Taplin, Anna, Maria.

Yeboah-Afari, Anetta — Adu-Gyamfi, Anetta.

Yeboah-Afari, Charles — Adu-Gyamfi, Charles.

Yee, Duck — Yee, Doug, D.

Ying, Gillian, Helen — Morris, Gillian, Helen.

Young, Dai, Wo — Uong, John, Dai, Wo.

Young, Janice, Leslie — Edgcombe, Janice, Leslie.

Yuyitung, Catherine, Helen — Bentley, Catherine, Helen.

Zabian, Smaya — Kobrosli, Smaya.

Zeng, Feng, Shan — Yu, Feng, Shan.

Zygmuntowicz, Danuta, Teresa — Weber, Danuta, Teresa.

Dated this 20th day of July, 1990.

(4502) 32

CAROLYNN LACHAPPELLE,  
Deputy Registrar General.

## Applications to Provincial Parliament—Private Bills Demandes au Parlement provincial—Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

The Office of the Clerk of the Legislative Assembly  
Room 1521, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/963-1300 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

(8699) T.F.N.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

## Petitions to Provincial Parliament/Pétitions au Parlement provincial

### Extract from the Standing Orders respecting petitions

35. (c) Every petition shall:

- (i) be addressed to the Parliament, Legislature or Legislative Assembly of Ontario;
- (ii) contain a clear, proper and respectful request that the House take some action within its authority;
- (iii) be written, typewritten or printed, without erasures or insertions;
- (iv) have its request appear at the top of every sheet, if it consists of more than one sheet of signatures; and
- (v) contain the names, addresses and original signatures written directly on the face of the petition and not pasted thereon or otherwise transferred to it.

(d) Every member presenting a petition shall ensure that the petition conforms with the Standing Orders.



(e) The signature of every member presenting a petition shall be affixed to the petition.

Further information with respect to petitions may be obtained from:

Journals Branch  
Room 110, Legislative Building  
Queen's Park  
Toronto, Ontario  
M7A 1A2

Telephone: 416/965-1406  
(Collect calls will be accepted.)

### SAMPLE FORM FOR PETITIONS

#### PETITION

TO *The Parliament/Legislature/Legislative Assembly* (choose one) of *Ontario*:—

WHEREAS (preamble if required)

WHEREAS (preamble if required)

I/We the undersigned petition the *Parliament/Legislature/Legislative Assembly* (choose one) of *Ontario* as follows:—

(Text of Petition)

Name (printed)

Address (printed)

Signature

(4268) T.F.N.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

### **Applications to Provincial Parliament Demandes au Parlement provincial**

#### **BILL PRANKARD EVANGELISTIC CORPORATION**

NOTICE IS HEREBY GIVEN that on behalf of Bill Prankard Evangelistic Corporation application will be made to the Legislative Assembly of the Province of Ontario for an Act to revive the Charter of Bill Prankard Evangelistic Corporation which has been cancelled on the 27th day of January, 1987.

This application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Ancaster, this 25th day of June, 1990.

REVERAND WILLIAM  
PRANKARD,  
Signing on behalf of  
Bill Prankard Evangelistic  
(6755) 29 to 32 Association.

#### **THE CORPORATION OF THE CITY OF LONDON**

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the City of London, application will be made to the Legislative Assembly of Ontario at its next regular session commencing in 1990 for an Act,

1. To permit the Council of the Corporation to appoint two or three members of the Council, as determined by the Council, to the London Transit Commission, and to change from two to three the number of members of the Commission necessary to constitute a quorum of the Commission.
2. To ratify and confirm an indenture between the Corporation and the Western Fair Associ-

ation dated November 30, 1989 respecting the ownership and use of the fair grounds known as Queen's Park and to authorize and empower the parties to carry out the terms of the indenture.

This application will be considered by a Standing Committee of the Legislative Assembly. Any person who has an interest in the application and who wishes to make submissions for, or against the application, to the Standing Committee should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at London, this 3rd day of July, 1990.

ROBERT A. BLACKWELL, Q.C.,  
City Solicitor,  
THE CORPORATION OF THE  
CITY OF LONDON,  
300 Dufferin Avenue,  
P.O. Box 5035,  
(6756) 29 to 32 London, Ontario N6A 4L9.

#### THE CORPORATION OF THE TOWN OF MARKHAM

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the Town of Markham, application will be made to the Legislative Assembly of the Province of Ontario for an Act to provide:

1. That the Town may have wider powers regarding the protection of heritage homes and areas in the Town of Markham, in that:
  - (i) all applications for demolition permits would go before Town Council for approval;
  - (ii) Council may refuse an application for demolition and prohibit any work from being done to demolish or remove the building or structure;
  - (iii) to increase its maximum fines for demolishing without a permit.

This application will be considered by a Standing Committee of the Legislative Assembly. Any person who has an interest in the application and who wishes to make submissions for, or against the application, to the Standing Committee should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Markham, this 9th day of July, 1990.

ROBERT J. SWAYZE,  
Town Solicitor,  
THE CORPORATION OF THE  
TOWN OF MARKHAM,  
8911 Woodbine Avenue,  
(6757) 29 to 32 Markham, Ontario L3R 1A1.

#### CORPORATION OF THE CITY OF TORONTO

NOTICE IS HEREBY GIVEN that on behalf of the Corporation of the City of Toronto, application

will be made to the Legislative Assembly of the Province of Ontario, for an Act to provide:

1. that Council of the City may pass by-laws prohibiting persons from causing or permitting refuse or debris originating from a construction site to be placed, deposited or blown on to private property or property of the municipality or of a local board without authority from the owner or occupant of the property.

The proposed legislation will define 'construction site' to mean any land upon which new or used materials or equipment are located in relation to the renovation construction or demolition of any building or structure.

This application will be considered by a Standing Committee of the Legislative Assembly. Any person who has an interest in the application who wishes to make submissions, for or against the application, to the Standing Committee should notify in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 12th day of July, 1990.

DENNIS Y. PERLIN,  
Solicitor,  
City Hall,  
(6815) 29 to 32 Toronto, Ontario M5H 2N2.

#### GILFORD LAND DEVELOPMENT CO. LIMITED

NOTICE IS HEREBY GIVEN that on behalf of Gilford Land Development Co. Limited application will be made to the Legislative Assembly of the Province of Ontario for an Act reviving the corporation.

The application will be considered by a Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 1st day of July, 1990.

BRIAN McDONOUGH,  
on behalf of the Applicant,  
Gilford Land Development Co.  
(6855) 31 to 34 Limited

#### CITY OF YORK

#### NOTICE OF APPLICATION FOR SPECIAL LEGISLATION

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the City of York, application will be made to the Legislative Assembly of the Province of Ontario for an Act granting the Corporation of the City of York certain powers and imposing certain duties regarding its Board of Health as follows:

1. the Council of the City of York shall stand in the place of its Board of Health in respect of the

appointment, reappointment and dismissal of the Medical Officer of Health; and

2. the Council of the City of York shall provide to its Board of Health such employees of the City including public health nurses that it considers necessary to carry out the functions of the Board of Health; and

3. the Council of the City of York shall appoint the auditor of its Board of Health.

This application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee of Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 2nd day of August, 1990.

THE CORPORATION OF  
THE CITY OF YORK,  
GEORGE MCQ. BARTLETT,  
City Solicitor.

(6896) 32 to 35

## Corporation Notices Avis relatifs aux compagnies

### 673622 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 673622 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 1st day of July, 1990.

(6897) 32 DONALD K. SHEARDOWN,  
President.

### R-S TRUCK TRANSFER LTD.

NOTICE IS HEREBY GIVEN that R-S Truck Transfer Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 24th day of July, 1990.

(6898) 32 MICHAEL E. SCHUSTER,  
President.

### WORKBENCH CO. OF CANADA INC.

NOTICE IS HEREBY GIVEN that Workbench Co. of Canada Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Kingston, this 23rd day of July, 1990.

(6899) 32

### 312211 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 312211 Ontario Limited (formerly Easy-Plan Industries Limited) intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 19th day of September, 1988.

(6900) 32 GARY T. BRIGGS,  
Vice-President, Finance and  
Assistant-Secretary.

### ONTARIO K.F.C. MARKETING GROUP INC.

NOTICE IS HEREBY GIVEN that Ontario K.F.C. Marketing Group Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 25th day of July, 1990.

(6901) 32 BERNHARDT R. STRASSBURGER,  
President.

### MADHANY INVESTMENTS LTD.

NOTICE IS HEREBY GIVEN that Madhany Investments Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 27th day of July, 1990.

(6902) 32 NASREEN K. MADHANY,  
President.

### SQUARE DEAL ENTERPRISES (CHATHAM) INCORPORATED

NOTICE IS HEREBY GIVEN that Square Deal Enterprises (Chatham) Incorporated intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 30th day of March, 1990.

(6903) 32 THOMAS FAREG TOMA,  
President.

### A & M VIDEO OF CANADA LIMITED

NOTICE IS HEREBY GIVEN that A & M Video Of Canada Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 23rd day of July, 1990.

(6904) 32 G. LACOURSIERE,  
President.

### PERFECT JOY PRODUCTIONS LTD.

NOTICE IS HEREBY GIVEN that Perfect Joy Productions Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Sault Ste. Marie, this 27th day of July, 1990.

(6905) 32 MARY DAUVIN,  
Secretary.

### OVERMARS & SONS (ONTARIO) LIMITED

NOTICE IS HEREBY GIVEN that Overmars & Sons (Ontario) Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 24th day of July, 1990.

(6906) 32



**EGLINTON EQUESTRIAN SERVICES LTD.**

NOTICE IS HEREBY GIVEN that Eglinton Equestrian Services Ltd. (a wholly-owned inactive subsidiary of The Eglinton Equestrian Club) intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 30th day of April, 1990.

(6907) 32 PREBEN SCHMIDT,  
Secretary.

**ROGER DESRAMAUX TAILORS LIMITED**

NOTICE IS HEREBY GIVEN that Roger Desramaux Tailors Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 27th day of July, 1990.

(6908) 32 ROGER DESRAMAUX

**PHILATELIC EXHIBITION CONSULTANTS LIMITED**

NOTICE IS HEREBY GIVEN that Philatelic Exhibition Consultants Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 14th day of July, 1990.

(6909) 32 GUSTAVE E. SNELS,  
Secretary.

**GREATER NIAGARA MEDICAL ARTS LIMITED**

NOTICE IS HEREBY GIVEN that Greater Niagara Medical Arts Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 27th day of July, 1990.

(6910) 32 RICHARD D. MERRITT,  
Secretary.

**PREVDENT INCORPORATED**

NOTICE IS HEREBY GIVEN that Prevdent Incorporated intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 16th day of July, 1989.

(6911) 32 LUCY DIANA SARE,  
President.

**GLORY TO GOD PUBLISHING CO. INC.**

NOTICE IS HEREBY GIVEN that Glory to God Publishing Co. Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Windsor, this 1st day of August, 1990.

(6912) 32 L. PHILLIPS,  
Secretary.

**CHAMBERS MANAGEMENT LTD.**

NOTICE IS HEREBY GIVEN that Chambers Management Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Barrie, this 26th day of July, 1990.

(6913) 32 JUNE BEVERLY CHAMBERS,  
Secretary.

**MEDWAY VALLEY FARMS INC.**

NOTICE IS HEREBY GIVEN that Medway Valley Farms Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at London, this 23rd day of July, 1990.

(6914) 32 ROBERT F. FELLNER,  
Secretary.

**TUNNEL VISION LTD.**

NOTICE IS HEREBY GIVEN that Tunnel Vision Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at London, this 23rd day of July, 1990.

(6915) 32 ROBERT F. FELLNER,  
Secretary.

**SPARROW DIE CASTING INC.**

NOTICE IS HEREBY GIVEN that Sparrow Die Casting Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Chatham, this 24th day of July, 1990.

(6916) 32 LUIGI PARMIGIANI,  
President.

**B.W. WERNERFELT INC.**

NOTICE IS HEREBY GIVEN that B.W. Wernerfelt Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 15th day of June, 1990.

(6917) 32 KARSTEN WERNERFELT,  
President.

**THE GUELPH POULTRY RESEARCH CENTRE  
(Ontario Corporation No. 853088)**

NOTICE IS HEREBY GIVEN that the number of Directors of The Guelph Poultry Research Centre was increased from three (3) to seven (7) by a special resolution which was confirmed by the Members of the Corporation on the 30th day of March, 1990.

Dated this 16th day of July, 1990.

(6918) 32 ROBERT WILLIAM CLARK STEVENS,  
Chairman.

**BETHEL BAPTIST CHURCH (SIMCOE)**

NOTICE IS HEREBY GIVEN that the location of the head office of Bethel Baptist Church (Simcoe) was changed from the Town of Simcoe to the City of Nanticoke, in the Regional Municipality of Haldimand-Norfolk, in the Province of Ontario, by special resolution which was confirmed by the Members of the Corporation on the 23rd day of July, 1990.

Dated this 23rd day of July, 1990.

(6919) 32 MARVIN PAUL WIEDRICK,  
Secretary.

#### ASSOCIATION FOR THE NEUROLOGICALLY DISABLED OF CANADA

The Association for the Neurologically Disabled of Canada, otherwise known as A.N.D., after a resolution at a Board of Directors' meeting on May 31, 1990 and confirmed at the Annual General meeting by the members of the Association on June 27th, 1990 to change our registered address to 59 Clement Road, Etobicoke, Ontario M9R 1Y5, pursuant to the *Corporation's Act*.

(6920) 32 R. S. NELSON,  
President.

#### THE PRINCE EDWARD COUNTY DAY CARE CENTRE

NOTICE IS HEREBY GIVEN that The Prince Edward County Day Care Centre intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 23rd day of July, 1990.  
(6921) 32

#### FAMILY GROUP FINANCIAL (1988) INC. and FAMILY GROUP FINANCIAL CORPORATION

NOTICE IS HEREBY GIVEN that by Judgment of The Honourable Judge Gautreau, Local Judge, S.C.O. at London, dated July 19, 1990, Peat Marwick Thorne Inc. was appointed as liquidator of the estate and effects of Family Group Financial (1988) Inc. and Family Group Financial Corporation for the purpose of winding up the business and affairs of the said companies and distributing their property.

(6922) 32 PEAT MARWICK THORNE  
INC.,  
700-200 Queens Avenue,  
London, Ontario N6A 1J3.

#### RIENETT ENTERPRISES LIMITED

TAKE NOTICE that on the 30th day of July, 1990, the shareholders of Rienett Enterprises Limited passed a resolution requiring the said Corporation to be wound up voluntarily effective the 31st day of July, 1990, under the provisions of the *Business Corporations Act*, 1982, and appointing A. Carl Rieder, 93 Edgehill Drive, Kitchener, Ontario, as liquidator.

Dated at Kitchener, this 30th day of July, 1990.

(6923) 32 By its Solicitors,  
SUTHERLAND, HAGARTY, MARK  
AND SOMERVILLE,  
22 Water Street South,  
Kitchener, Ontario N2G 4K4,  
Per: ROBERT A. SUTHERLAND.

#### GLENVILLE-CRANG HOLDINGS LIMITED

NOTICE IS HEREBY GIVEN that Glenville-Crang Holdings Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated at Toronto, this 26th day of July, 1990.  
(6924) 32 MICHAEL E. WRIGHT,  
President.

#### 247426 DEVELOPMENTS LIMITED

NOTICE IS HEREBY GIVEN that 247426 Developments Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 30th day of June, 1990.  
(6925) 32 ARTHUR F. JOHNSON,  
President.

#### FOREST HILL FARMS LIMITED

NOTICE IS HEREBY GIVEN that Forest Hill Farms Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 27th day of June, 1990.  
(6932) 32 CELIA UNGERMAN,  
President.

#### COMMENHEALTH

NOTICE IS HEREBY GIVEN that ComMenHealth has passed a Resolution providing for the surrender of its charter, and that after payment or provision for all of its debts and liabilities, its remaining property shall be distributed or disposed of to the Coordinating and Advisory Council for Mental Health Services in York Region and that such Resolution was confirmed by all of the Members of ComMenHealth effective the 23rd day of July, 1990.

Dated at Newmarket, this 23rd day of July, 1990.  
(6933) 32 BRIAN COLMAN,  
Secretary.

#### ALAMAR MANOR LTD.

NOTICE IS HEREBY GIVEN that Alamar Manor Ltd. intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated at Toronto, this 18th day of June, 1990.  
(6934) 32 THEODORE BATCHER,  
Secretary/Treasurer.

#### RESTCHURCH LIMITED

NOTICE IS HEREBY GIVEN that Restchurch Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated at Toronto, this 18th day of June, 1990.  
(6935) 32 THEODORE BATCHER,  
President.

**FORMATIVE TECHNOLOGIES LIMITED**

NOTICE IS HEREBY GIVEN that Formative Technologies Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 29th day of June, 1990.

SAMUEL LEINHARDT,  
Secretary.

(6936) 32

**SWITZER'S STYLE SHOPPE LIMITED**

NOTICE IS HEREBY GIVEN that Switzer's Style Shoppe Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 31st day of July, 1990.

MOLLY SWITZER,  
Secretary.

(6937) 32

## Notice to Creditors Avis aux créanciers

**ESTATE OF DAVID ALEXANDER CHEVERIE**

All claims against the Estate of David Alexander Cheverie, late of Brampton, Province of Ontario, who died on or about the 8th day of February, 1990, in Toronto, Province of Ontario, must be filed with the undersigned personal representative on or before the 11th day of January, 1991; thereafter, the undersigned will distribute the assets of the said Estate, having regard only to the claims then filed.

Dated at Charlottetown, in Queens County, Province of Prince Edward Island, this 18th day of July, 1990.

CARR, STEVENSON &  
MACKAY,  
Barristers & Solicitors,  
50 Water Street,  
P.O. Box 522,  
Charlottetown, P.E.I. C1A 7L1,  
Telephone: (902) 892-4156.

(6887) 31 to 33

## Miscellaneous Notices Avis divers

**CORPORATION OF THE TOWNSHIP OF TECUMSETH****OZMAN PRIVATE CEMETERY**

NOTICE IS HEREBY GIVEN that the cemetery known as the Ozman Private Cemetery, located on lands owned by William John and Margaret Jean Brethet, with a municipal address of R.R. #3, Tottenham, Ontario and more particularly described as Part North Half Lot 20, Concession 5, in the Township of Tecumseth, in the County of Simcoe, is the subject of an application for closure whereupon no further interments shall take place therein.

AND NOTICE IS HEREBY GIVEN pursuant to Section 59 of the *Cemeteries Act*, Revised Statutes of

Ontario, 1980, Chapter 59, that application will be made to the Lieutenant Governor in Council for an Order directing that the remains, headstones and markers in said cemetery be removed therefrom in accordance with the provisions of said Act.

AND FURTHER NOTICE IS HEREBY GIVEN that it is the intention of The Corporation of the Township of Tecumseth, owner of the Cemetery pursuant to Section 62 of the *Cemeteries Act*, to remove the remains, the headstones and markers to St. John's Anglican Church Cemetery at the South Part of Lot 17, Concession 6, in the Township of Tecumseth, County of Simcoe, where they will be re-interred in a common grave and the headstones and markers will be reassembled in a cairn at the site.

Dated at Beeton, this 13th day of July, 1990.

CORPORATION OF THE  
TOWNSHIP OF TECUMSETH,

PATRICIA M. MIDDLEBROOK,  
AMCT,  
Deputy-Clerk,  
P.O. Box 220,

(6817) 30 to 33 Beeton, Ontario L0G 1A0.

**TRAILMOBILE EMPLOYEES' (BRANTFORD) CREDIT UNION LIMITED**

NOTICE IS HEREBY GIVEN that the membership of Trailmobile Employees' (Brantford) Credit Union Limited passed a special resolution on July 19, 1990 to wind-up the credit union pursuant to the *Credit Unions and Caisses Populaires Act*.

Dated this 30th day of July, 1990.

(6926) 32

**ALGONQUIN WEST CREDIT UNION LIMITED**

Please note that the following legal notice is in accordance with the provisions of the *Credit Unions and Caisses Populaires Act*. The Algonquin West Credit Union Limited will continue operations at both its branches under the business combination with Parry Sound-Muskoka Credit Union Limited. Any questions can be directed to the staff.

**NOTICE**

TAKE NOTICE that at a special meeting of members of the Algonquin West Credit Union Limited duly called for the purpose held on the 11th day of June, 1990, a special resolution was passed authorizing the voluntary winding up and appointment of the undersigned as liquidator of the said Credit Union under the provisions of Section 120 of the *Credit Unions and Caisses Populaires Act*.

AND FURTHER TAKE NOTICE that on and after the 11th day of June, 1990, no further withdrawals or payments on shares or deposits may be made by any member and no new loans will be made. Proof of any claim against the said Credit Union must be filed with the Liquidator within thirty days of the date of this notice, after which time the assets of the Credit Union will be distributed amongst the



persons entitled thereto, having regard to the claims of which the Credit Union then has notice.

ONTARIO SHARE AND  
DEPOSIT INSURANCE  
CORPORATION,  
4711 Yonge Street,  
Suite 700,  
North York,  
Ontario M2N 6K8,  
Liquidator.

(6927) 32

authorizing the voluntary winding up and appointment of the undersigned as liquidator of the said Credit Union under the provisions of Section 120 of the *Credit Unions and Caisses Populaires Act*.

AND FURTHER TAKE NOTICE that on and after the 26th day of June, 1990, no further withdrawals or payments on shares or deposits may be made by any member and no new loans will be made. Proof of any claim against the said Credit Union must be filed with the Liquidator within thirty days of the date of this notice, after which time the assets of the Credit Union will be distributed amongst the persons entitled thereto, having regard to the claims of which the Credit Union then has notice.

**ORILLIA COMMUNITY CREDIT UNION  
LIMITED**

The following notice is not intended for members of The Barrie Community Credit Union Orillia Branch. It is only for members who retained, at the time of acquisition, membership with the Old Orillia Community Credit Union Limited.

**NOTICE**

TAKE NOTICE that at a special meeting of members of the Orillia Community Credit Union Limited duly called for the purpose held on the 26th day of June, 1990, a special resolution was passed

ONTARIO SHARE AND  
DEPOSIT INSURANCE  
CORPORATION,  
4711 Yonge Street,  
Suite 700,  
North York,  
Ontario M2N 6K8,  
Liquidator.

(6928) 32

**Sales of Lands for Tax Arrears by Public Tender  
Ventes de terrains par appel d'offres pour arri  r   d'imp  t**

MUNICIPAL TAX SALES ACT, 1984

**THE CORPORATION OF THE TOWNSHIP OF PEELE**

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3.00 p.m. local time on September 4, 1990 at Municipal Building, Pelee Island, Ontario NOR 1M0.

The tenders will then be opened in public on the same day at 3.30 p.m.

Description of Land(s)	Minimum Tender Amount
(A) Plan 1277, Lot 37, Township of Pelee .....	\$1,099.22
(B) Plan 1011, Lots 29, 30, 31, 32, 33, Township of Pelee .....	2,897.10
(C) Plan 35, Part Lot 21, Township of Pelee .....	1,377.11
(D) Plan 1011, Part Lot 47, Lot 48, Lot 49, Township of Pelee .....	2,144.25
(E) Plan 228, Part Lot 2, Part 6 Plan 12R3150, Township of Pelee .....	1,278.31
(F) Plan 35, Lot 11, Part Lot 10 Plan 338, Part Lot 49, Township of Pelee .....	8,944.93
(G) Plan 35, Part Lot 15, Township of Pelee .....	2,042.91
(H) Plan 1277, Lot 34, Township of Pelee .....	1,283.84
(I) Plan 1309, Lot 10, Township of Pelee .....	1,262.21

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, being chapter 48 of the Statutes of Ontario, 1984 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

D. McTAVISH,  
Treasurer,  
THE CORPORATION OF THE  
TOWNSHIP OF PELEE,  
Pelee Island, Ontario N0R 1M0.

(6929) 32

#### MUNICIPAL TAX SALES ACT, 1984

#### THE CORPORATION OF THE CITY OF HAMILTON

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3.00 p.m. local time on September 13th, 1990 at Hamilton City Hall.

The tenders will then be opened in public on the same day at 3.30 p.m. local time.

Description of Land(s)	Minimum Tender Amount
255 MacNab Street North, Plan 127, Block 21, Part Lot 3, 30.03' × 120.12' more or less .....	\$33,822.87

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, being chapter 48 of the Statutes of Ontario, 1984 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

MR. E. C. MATTHEWS,  
Treasurer,  
THE CORPORATION OF THE  
CITY OF HAMILTON,  
71 Main Street West,  
Hamilton, Ontario L8N 3T4,  
Attn. MR. R. A. SEAGER.

(6930) 32

#### MUNICIPAL TAX SALES ACT, 1984

#### THE CORPORATION OF THE UNITED TOWNSHIP OF MCCROSSON AND TOVELL

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3.00 p.m. local time on September 6th, 1990 at 211 4th St., Rainy River, Ontario.

The tenders will then be opened in public on the same day at 211 4th St., Rainy River, Ontario.

Description of Land(s)	Minimum Tender Amount
E½ S½ Lot 10, Con. 3, Tovell, Pcl. 17,190, 77.5 acres .....	\$453.34
Part 1, Plan 48R-1713, Tovell, Pcl. 22,802, 0.9 acre .....	589.54

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, being chapter 48 of the Statutes of Ontario, 1984 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

P. W. GILES,  
Treasurer,  
THE CORPORATION OF THE  
UNITED TOWNSHIP OF,  
McCROSSON AND TOVELL,  
Box 427,  
Rainy River, Ontario P0W 1L0.



# Publications under the Regulations Act

## Publications en vertu de la Loi sur les règlements

1990—08—11

**LAND REGISTRATION REFORM ACT, 1984****O. Reg. 406/90.**

General.

Made—February 23rd, 1990.

Filed—July 23rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 580/84  
MADE UNDER THE  
LAND REGISTRATION REFORM ACT, 1984**

**1. Subsection 1 (2) of Ontario Regulation 580/84 is amended by adding the following paragraph:**

22. That portion of the City of North York (originally the Township of York) bounded by the following:

The southerly limit of Lawrence Avenue West as widened between Caledonia Road and Chicoutimi Avenue;

The westerly limit of Chicoutimi Avenue between Lawrence Avenue West and Coldstream Avenue;

The westerly limit of Westgrove Crescent between Coldstream Avenue and Glencairn Avenue;

The southerly limit of Glencairn Avenue between Westgrove Crescent and Bathurst Street;

The westerly limit of Bathurst Street as widened between Glencairn Avenue and Viewmount Avenue;

The southerly limit of Viewmount Avenue between Bathurst Street and Marlee Avenue;

The westerly limit of Marlee Avenue as widened between Viewmount Avenue and Hillmount Avenue;

The southerly limit of Hillmount Avenue between Marlee Avenue and Dufferin Street;

The westerly limit of Dufferin Street as widened between Hillmount Avenue and Glencairn Avenue;

The southerly limit of Glencairn Avenue between Dufferin Street and Caledonia Road; and

The westerly limit of Caledonia Road as widened between Glencairn Avenue and Lawrence Avenue West.

32/90

**ENVIRONMENTAL ASSESSMENT ACT****O. Reg. 407/90.**

Exemption—Ministry of

Transportation—MTC-58.

Made—July 11th, 1990.

Approved—July 11th, 1990.

Filed—July 23rd, 1990.

**ORDER MADE UNDER THE  
ENVIRONMENTAL ASSESSMENT ACT**

**EXEMPTION—MINISTRY OF  
TRANSPORTATION—MTC-58**

Having received a request from the Ministry of Transportation that an undertaking, namely:

The Remote Northern Airport Program of the Ministry of Transportation which includes:

1. The planning, design, construction and operation of remote northern airports and the buildings, facilities and access roads associated with such airports;
2. The expansion of existing remote northern airports; and
3. Major improvements to and/or relocation of access roads at remote northern airports,

be exempt from the application of the Act pursuant to section 29; and

Having been advised by the Ministry of Transportation that if the undertaking is subject to the application of the Act, the following injury, damage or interference with the persons and property indicated will occur:

- A. The proponent and review agencies will be damaged by the expenditure of resources to review and resubmit a Class Environmental Assessment for an undertaking which normally does not cause significant detrimental environmental effects and for which the existing class environmental assessment process is acceptable to the proponent, review agencies and potentially affected parties.

Having weighed such injury, damage or interference, against the betterment of the people of the whole or any part of Ontario by the protection, conservation and wise management in Ontario of the environment which would result from the undertaking being subject to the application of the Act;

The undersigned is of the opinion that it is in the public interest to order and orders that the undertaking is exempt from the application of the Act for the following reasons:

- A. The Ministry of Transportation (MTO) had demonstrated that the Remote Northern Airport Program provides significant social and economic benefits to the communities served with minimal disruption of the environment. This has been further demonstrated by the development of projects in accordance with the approval which was issued pursuant to Order in Council number O.C. 2801/80 which expired in 1985, and subsequently in accordance with Exemption Order MTC-54 which was filed as O. Reg. No. 168/85 and expired on March 28, 1990.
- B. The Remote Northern Airport projects are undertaken only in response to a request from, and with the co-operation and approval of, the band council of the Indian Reserve to be served by the airport.
- C. The nature of the projects, the scale of the program, the commitment by MTO to follow the previously approved Class Environmental Assessment process for the Remote Northern Airport Program and the possibility of amending this order to exclude any proposal that raises environmental concerns will ensure the protection, conservation and wise management in Ontario of the environment.

This exemption order is subject to the following terms and conditions:

1. Except as provided in subsequent conditions, MTO shall continue to follow the

Remote Northern Airport Class Environmental Assessment, referred to in reason A.

2. The format and minimum level of detail to be provided in the Environmental Study Report filed for each project as required by the Class Environmental Assessment will be modified in accordance with the amended Part IV, filed in the public record with Exemption Order MTC-54.
3. (1) In determining whether to specify, under condition 4 (b), a date later than December 31, 1990, for the termination of this order, the Minister of the Environment shall have regard to the results of a public consultation program carried out by MTO with respect to any requested extension of the applicable termination date.  
(2) Any public notice to be employed in a public consultation program under condition 4 (b) shall be approved by the Minister of the Environment prior to its formal issue.
4. This order shall terminate on the later of:
  - (a) December 31, 1990; and
  - (b) such later date as the Minister of the Environment from time to time specifies by notice in writing filed in the public record file for the Class Environmental Assessment. O. Reg. 407/90.

JAMES BRADLEY  
*Minister of the Environment*

32/90

## EXECUTIVE COUNCIL ACT

### O. Reg. 408/90.

Transfer of Administration of Act *Niagara Escarpment Planning and Development Act* transferred to Minister of the Environment.

Made—May 30th, 1990.

Filed—July 24th, 1990.

## ORDER IN COUNCIL

O.C. 1281/90

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and concurrence of the Executive Council, orders that

pursuant to subsections 2 (1) and 5 (1) of the *Executive Council Act*, and effective on and after the 1st day of June, 1990, the administration of and all powers and duties under or in relation to the *Niagara Escarpment Planning and Development Act* are hereby assigned and transferred to the Minister of the Environment.

Order in Council numbered OC-1959/85, dated the 7th day of August, 1985, and Ontario Regulation 422/85 are revoked effective the date of this Order.  
O. Reg. 408/90.

Recommended

JOHN SWEENEY  
*Minister of Municipal Affairs*

Concurred

MURRAY ELSTON  
*Chairman*

Approved and Ordered May 30, 1990.

LINCOLN M. ALEXANDER  
*Lieutenant Governor*

32/90

## EMPLOYMENT STANDARDS ACT

**O. Reg. 409/90.**

General.

Made—July 11th, 1990.

Filed—July 25th, 1990.

### REGULATION TO AMEND REGULATION 285 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE EMPLOYMENT STANDARDS ACT

1. Subsections 17 (1) and (2) of Regulation 285 of Revised Regulations of Ontario, 1980 are revoked.
2. The Regulation is amended by adding the following sections:

#### LOCAL CARTAGE

18.—(1) Notwithstanding Part VI of the Act, an employer shall pay to an employee who is a driver of a vehicle or who is a driver's helper overtime pay for each hour worked in excess of fifty hours in a work week at an amount not less than one and one-half times the employee's regular rate.

(2) Subsection (1) applies to employees who are drivers of vehicles used in the business of carrying goods for hire within a municipality or to any point

not more than five kilometres beyond the municipality's limits and to employees who are drivers' helpers on such vehicles. O. Reg. 409/90, s. 2, *part*.

#### HIGHWAY TRANSPORT

19.—(1) Notwithstanding Part VI of the Act, an employer shall pay to an employee who is a driver of a public truck overtime pay for each hour worked in excess of sixty hours in a work week at an amount not less than one and one-half times the employee's regular rate.

(2) Subsection (1) applies to employees who are drivers of public trucks that are operated by holders of operating licences issued under the *Truck Transportation Act*, 1988.

(3) Subsection (1) does not apply to employees who are drivers of vehicles used in the business of carrying goods for hire within a municipality or to any point not more than five kilometres beyond the municipality's limits.

(4) For purposes of this section, in computing the number of hours worked by an employee in a week, only those hours during which the employee is directly responsible for the public truck shall be included. O. Reg. 409/90, s. 2, *part*.

3. This Regulation comes into force on the 1st day of August, 1990.

32/90

## LIVE STOCK MEDICINES ACT

**O. Reg. 410/90.**

General.

Made—July 11th, 1990.

Filed—July 25th, 1990.

### REGULATION TO AMEND REGULATION 587 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE LIVE STOCK MEDICINES ACT

1. The Schedule to Regulation 587 of Revised Regulations of Ontario, 1980 is amended by adding the following items:

31a. Mebendazole for deworming of horses

37a. Oxfendazole for deworming of horses

32/90



**PUBLIC SERVICE ACT****O. Reg. 411/90.**

General.

Made—July 16th, 1990.

Approved—July 27th, 1990.

Filed—July 27th, 1990.

**REGULATION TO AMEND  
REGULATION 881 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
PUBLIC SERVICE ACT**

**1.—(1) Subsection 64 (1) of Regulation 881 of Revised Regulations of Ontario, 1980, as remade by section 3 of Ontario Regulation 304/87, is revoked and the following substituted:**

(1) Effective the 1st day of January, 1990, a full-time employee is entitled to vacation credits at the rate of,

- (a) 1¼ days per month during the first eight years of continuous service;
- (b) 1½ days per month,
  - (i) after eight years of continuous service,
  - (ii) after appointment to a position that is classified within the professional medical group, or
  - (iii) after appointment to a position that is classified within the Executive Compensation Plan;
- (c) 2 1/12 days per month,
  - (i) after sixteen years of continuous service by an employee who is a commissioned officer in the Ontario Provincial Police Force below the rank of Deputy Commissioner, or
  - (ii) after fifteen years of continuous service by an employee to whom sub-clause (i) does not apply; and
- (d) 2½ days per month after twenty-seven years of continuous service. O. Reg. 411/90, s. 1 (1).

**(2) Subsection 64 (15) of the Regulation, as made by section 3 of Ontario Regulation 667/87, is amended by striking out “or”**

**at the end of clause (c), by adding “or” at the end of clause (d) and by adding the following clause:**

- (e) an employee's period of full-time service under the *Legislative Assembly Act* that is immediately before the employee's appointment as a public servant under the *Public Service Act* and without any intervening break in service.

**(3) Section 64 of the Regulation is amended by adding the following subsection:**

(16) In clause 15 (e) “service under the *Legislative Assembly Act*” includes full-time service as an employee of the caucus of a political party or of a member of the Assembly where the employee's salary is paid out of the money appropriated for use of the caucus or member under the *Legislative Assembly Act*. O. Reg. 411/90, s. 1 (3).

**2.—(1) Subsection 69 (1) of the Regulation, as remade by section 19 of Ontario Regulation 24/86, is amended by striking out the portion after clause (b) and substituting the following:**

in the event of the death on or after the 15th day of June, 1990 of the employee's spouse, parent, mother-in-law, father-in-law, child, stepchild, daughter-in-law, son-in-law, sister, brother, sister-in-law, brother-in-law, grandparent, grandchild, ward or guardian.

**(2) Section 69 of the Regulation, as remade by section 19 of Ontario Regulation 24/86 and amended by section 3 of Ontario Regulation 41/90, is further amended by adding the following subsections:**

(3) An employee who would otherwise have been at work is entitled to one day leave of absence with pay in the event of the death on or after the 15th day of June, 1990 of the employee's aunt, uncle, niece or nephew.

(4) If the funeral service for a person on whose death an employee is entitled to a leave of absence under subsections (1) and (3) is held at a location more than 800 kilometres from the employee's residence, the employee is entitled to two additional days leave of absence without pay immediately following the leave of absence taken by the employee under those subsections.

(5) Subsections (3) and (4) do not apply to a commissioned officer in the Ontario Provincial Police Force below the rank of Deputy Commissioner. O. Reg. 411/90, s. 2 (2).

**3. Subsection 78 (1) of the Regulation, as remade by section 1 of Ontario Regula-**

**tion 523/87, is revoked and the following substituted:**

(1) The Basic Life Insurance Plan shall provide life insurance coverage equal to 100 per cent of the annual salary of every employee, and such coverage shall not be less than \$10,000 for a full-time employee and \$5,000 for a part-time employee. O. Reg. 411/90, s. 3.

**4.—(1) Subclause 83 (1) (b) (ii) of the Regulation, as remade by section 2 of Ontario Regulation 523/87, is revoked and the following substituted:**

(ii) \$50 above the charge by the hospital for standard ward room hospital care for each day on or after the 1st day of January, 1990 to every employee to whom subclause (i) does not apply; and

**(2) Clause 83 (2) (b) of the Regulation, as remade by section 2 of Ontario Regulation 523/87, is revoked and the following substituted:**

(b) vision care, to a maximum of \$100 every twenty-four months per person, as of the 1st day of January, 1990, to every employee to whom clause (a) does not apply and who elects to participate in the Plan's additional coverage for vision care and hearing aids; and

**(3) Clauses 83 (4) (a) and (b), as made by section 27 of Ontario Regulation 24/86, are revoked and the following substituted:**

- (a) 60 per cent of the premiums for each participating full-time employee; and
- (b) 60 per cent of the percentage of the monthly premiums which apply in clause (1a) (b) for each participating part-time employee,

**5. Subsection 84 (1) of the Regulation, as remade by section 10 of Ontario Regulation 304/87, is revoked and the following substituted:**

(1) Effective the 1st day of January, 1990, the Dental Insurance Plan shall provide to every employee who elects to participate, reimbursement of,

- (a) 80 per cent of the cost of basic dental services, endodontic services, periodontic services and repair or maintenance services for existing dentures or bridges specified by the Plan but not to exceed 80 per cent of the

fees set out in the Ontario Dental Association schedule of fees for general practitioners in effect when the expense is incurred;

(b) 50 per cent of the cost of new dentures specified by the Plan to a maximum of 50 per cent of the fees therefor set out in the Ontario Dental Association schedule of fees in effect when the expense is incurred, provided that the maximum amount of reimbursement under this clause in respect of the claims of any one of the employee, the employee's spouse and the dependent children of the employee shall not exceed \$2,000;

(c) 50 per cent of the cost of orthodontic services specified by the Plan and provided to unmarried dependent children of the employee over the age of six years and under the age of nineteen years to a maximum of 50 per cent of the fees therefor set out in the Ontario Dental Association schedule of fees in effect when the expense is incurred, provided that the maximum amount of reimbursement under this clause shall not exceed \$2,000; and

(d) 50 per cent of the cost of crowns, bridge-work and other major restorative services specified by the Plan to a maximum of 50 per cent of the fees therefor set out in the Ontario Dental Association schedule of fees in effect when the expense is incurred, provided that the maximum amount of reimbursement under this clause in respect of the claims in a year of any one of the employee, the employee's spouse and the dependent children of the employee shall not exceed \$2,000. O. Reg. 411/90, s. 5.

**6. Schedules 3, 4, 5, 6 and 7 to the Regulation, as remade by section 1 of Ontario Regulation 125/90 are revoked and the following substituted:**

**Schedule 3**

Accident Claims Supervisor 1, 2  
Accommodation Officer 1, 2, 3  
Architectural Job Captain 1, 2, 3  
Archivist 1, 2, 3  
Artifacts Officer  
Audiologist

Boiler Inspector  
Building Caretaker 6

Cartographer 1, 2, 3, 4  
Cartographic Technician 1, 2, 3  
Classifier 1, 2, Board of Censors  
Commercial Artist 1, 2  
Communications Technician 3

Construction Superintendent 1, 2, 3

Court Reporter 1, 2, 3

Court Reporter Apprentice

Data Processing Technician 1, 2, 3, 4, 5, 6, 7

Data Processing Technician 2, 3, 4, 5, 6, 7 (Excluded)

Dental Assistant

Dental Hygienist

Deputy 1, 2, Administration of Justice

Designer 1, 2

Dietitian 1

Drafter 1, 2, 3

Drafter Tracer

Driver Examination Supervisor 1

Driver Examiner

Driver Examiner (Probationary)

E.E.G. Technician 1, 2, 3

Elevator Inspector 1, 3

Engineering Officer 1, 2

Engineering Services Officer 2, 3

Environmental Officer 1, 2, 3, 4, 5

Estate Assessor 1, 2

Estimator and Quantity Surveyor 1

Exhibition Designer 1, 2

Farm Products Inspector 1, 2

Field Worker 1, 2, Homes for Special Care

Fire Safety Officer 3

Fire Services Adviser 2

Fire Services Investigator 2

Forensic Analyst 1, 2, 3

Highway Carrier, Inspector 1, 2, 3

Highway Carrier, Supervising Inspector 1

Highways Assistant Communications Supervisor

Home Economics Assistant 1, 2

Indian Development Officer

Inspector of Surveys 2

Instructor 1, 2, Ontario Fire College

Instrument Repairer 1, 2

Instrument Repairer, Foreman/woman

Insurance Representative

Interior Designer 1, 2

Interior Designer, Trainee

Investigator of Estates

Junior Commercial Artist

Junior Drafter

Laboratory Attendant 1, 2

Language and Citizenship Training Specialist 1

Legislative Assistant Editor

Librarian 1, 2, 3, 5

Library Technician 1, 2, 3, 4

Maintenance Superintendent 1, 2

Nurse 1, 2, Clinic

Nurse 1, 2, 3, Public Health

Occupational Therapist 1, 2, 3

Office Administration 1, 2, 3, 4, 5, 6, 7, 8, 9  
10, 11, 12, 13

Office Administration 1, 2, 3, 4, 5, 6, 7, 8, 9  
10, 11, 12, 13 (Excluded)

Operator 1, 2, 3, Bindery Equipment

Operator 1, 2, 3, 4, Microfilm

Operator 1, 2, 3, 4, Offset Equipment

Operator 1, 2, 3, Whiteprint Equipment

Operator 4, X-Ray Unit

Organizer 2, X-Ray Surveys

Personalty Valuator 1

Pesticide Control Officer 1, 2, 3

Pharmacist - Staff

Pharmacy Technician 1, 2

Photogrammetrist 1, 2, 3, 4

Platemaker 1, 2

Printing Estimator

Psychologist 1

Psychometrist 1, 2

Purchasing Officer 1, 2, 3

Purchasing Officer 1 (Excluded)

Records Officer Junior

Records Officer Junior (Excluded)

Records Officer 1, 2

Records Officer 1, 2 (Excluded)

Rehabilitation Officer 1, 2, Correctional Services

Rehabilitation Officer 1, 2, Health

Research Officer 1, 2(a), 2(b), Transportation  
and Communications

Returning Officer, Ontario Labour Relations Board

Review Officer

Review Supervisor 2

Safety Instruction Officer 2 (Excluded)

Schedule Co-ordinator 1, 2, 3

Scientist 1, 2, 3

Senior Usher and Messenger

Service Areas Inspector

Services Officer 1 (Bargaining Unit)

Services Supervisor 2

Sheriff's Officer 1, 2

Social Work Assistant

Social Work Supervisor 1, 2, (Bargaining Unit)

Social Worker 1, 2

Specification Officer 1, 2, 3

Speech Therapist

Staff Training Officer, Community and Social Services  
(Bargaining Unit)

Standards Officer 1, 2, Industrial Training

Standards Officer 1, 2, Industrial Training (Excluded)

Steam Plant Chief 2

Supervisor of Operations (Bargaining Unit)



Technician 1, 2, 3, 4, 5, Chemical Laboratory  
 Technician 3, 4 Construction  
 Technician 1, 2, Engineering Office  
 Technician 3, 4, Engineering Survey  
 Technician 1, 2, 3, Fuel  
 Technician 3, Legal Survey  
 Technician 1, 2, Municipal Engineering  
 Technician 1, 2, 3, 4, Photographic  
 Technician 1, 2, 3, 4, 5 Physical Laboratory  
 Technician 1, 2, 3, 4, 5, Radiation  
 Technician 1, 2, 3, 4, Road Design  
 Technician 1(a), 1(b), X-Ray  
 Technician X-Ray, Supervisor  
 Technologist 1, 2, 3, Medical Laboratory  
 Telephone Services Officer  
 Traffic Analyst 1, 2, 3, 4, 5  
 Translator 1, 2, 3  
 Travel Counsellor 1, 2, 3

Usher and Messenger

Welfare Field Worker 1, 2  
 Welfare Field Worker (Probationary)

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#### Schedule 4

Agricultural Technician 1, 2, 3  
 Agricultural Worker 1, 2, 3  
 Air Engineer  
 Ambulance Officer 1, 2, 3, 4  
 Arboriculturist 1  
 Artisan 1, 2, 3  
 Attendant 1, 2, 3, 4, Oak Ridge  
 Audiologist Services Technician  
  
 Baker 1, 2  
 Bookbinder 1, 2  
 Bridge Operator  
 Building Caretaker 1, 2  
 Building Cleaner and Helper 3 (Bargaining Unit)  
 Butcher 1  
  
 Cable Ferry Operator 1, 2  
 Canteen Operator 1, 2  
 Chief Steward  
 Child Care Assistant 1, 2  
 Child Care Worker 1, 2, 3,  
 Cleaner 1, 2, 3  
 Cleaner, Office Buildings  
 Clerk 1, 2, 3, 4, 5, 6, Supply  
 Clerk 7, Supply (Bargaining Unit)  
 Communications Technician 1, 2  
 Constable  
 Constable (Probationary)  
 Construction Inspector  
 Cook 1, 2  
 Cook 3 (Bargaining Unit)

Correctional Officer 1, 2, 3  
 Counsellor 1, 2, 3 Residential Life

Deckhand

Electronics Repairer  
 Electronics Technician  
 Electronics Technician 1, 2, Government Services  
 Elevator Attendant  
 Elevator Mechanic 1, 2, 3  
 Equipment Spray Painter

Ferry Mate  
 Fire Safety Officer 1, 2  
 Fire Services Adviser 1  
 Fire Services Investigator 1

Garage Attendant  
 Garage Attendant Supervisor

Hairdresser  
 Helper, Food Service  
 Highway Construction Inspector 1, 2, 3  
 Highway Equipment Operator 1, 2, 3, 4  
 Highway Equipment Supervisor 1  
 Highway General Foreman/woman  
 Highway Labour Foreman/woman  
 Hospital Attendant 1  
 Hospital Housekeeper 1, 2 (Bargaining Unit)

Industrial Officer 1, 2, 3  
 Inspector of Weighers and Checkers 1, 2  
 Inspector 1, 2, Vehicle Inspection  
 Instructor 1, 2, 3, 4 (Occupational)  
 Instructor 1, 2, 3(a), Recreation and Crafts

Landscape Worker  
 Laundry Worker 1, 2, 3, 4, 5  
 Lineman/woman

Maintenance Bricklayer  
 Maintenance Carpenter  
 Maintenance Carpenter, Foreman/woman  
 Maintenance Electrician  
 Maintenance Electrician, Foreman/woman  
 Maintenance Foreman/woman  
 Maintenance Machinist  
 Maintenance Machinist, Foreman/woman  
 Maintenance Mason  
 Maintenance Mechanic 1, 2, 3  
 Maintenance Painter and Decorator  
 Maintenance Painter and Decorator, Foreman/woman  
 Maintenance Plasterer  
 Maintenance Plasterer, Foreman/woman  
 Maintenance Plumber  
 Maintenance Plumber, Foreman/woman  
 Maintenance Refrigeration Mechanic  
 Maintenance Refrigeration Mechanic, Foreman/woman  
 Maintenance Sheet Metal Worker

Maintenance Steamfitter  
 Maintenance Welder  
 Manual Worker  
 Marine Engineer 1, 2  
 Meat Inspector 1  
 Mechanic 1, 2  
 Mechanic Foreman/woman  
 Medical Assistant 1, 2, 3  
 Mill Worker 1, 2  
 Motor Vehicle Operator 1, 2

Nurse 1, 2, 3, General  
 Nurse 1, 2, 3, Nursing Education  
 Nurse 2, 3, Special Schools

Observation and Detention Home Worker 1, 2, 3

Parking Attendant  
 Powderman/woman  
 Preparator 1, 2  
 Provincial Bailiff 1, 2  
 Psychiatric Nursing Assistant 1, 2, 3, 4

Radio and T.V. Repairer  
 Radio Operator 1, 2, 3  
 Recreation Officer 1, 2, Correctional Services  
 Recreation Officer 3, Correctional Services (Bargaining Unit)  
 Residence Supervisor 1  
 Resource Technician 1, 2, 3, 4

Security Officer 1, 2, 3  
 Senior Bridge Operator  
 Senior Marine Engineer 1, 2  
 Sergeant, Ontario Provincial Police  
 Sewer 1, 2  
 Sign Painter  
 Sign Painter, Foreman/woman  
 Sign Painter, Helper  
 Sign Painter, Improver  
 Staff Sergeant, Ontario Provincial Police  
 Steam Plant Engineer 1, 2, 3  
 Steam Plant Technician 1, 2  
 Steward  
 Supervisor 1, Food Service (Bargaining Unit)  
 Supervisor of Juveniles 1, 2

Tailor  
 Technician 1, 2, Construction  
 Technician 1, Engineering Survey  
 Technician 2, Engineering Survey (Bargaining Unit)  
 Technician Equipment Development  
 Technician 1, 2, 3, 4, 5, Field  
 Technician 1, 2, Legal Survey  
 Technician 1, 2, 3, Survey  
 Technician 1, 2, 3, 4, Traffic  
 Telephone Installer 1, 2, 3  
 Trade Instructor 1, 2, 3  
 Trades Apprentice  
 Traffic Patroller 1, 2, Transportation and  
 Communications

Trainee (M.R.C. Course), Health  
 Transport Dispatcher  
 Transport Driver

Upholstery Repairer

Volunteer Services Assistant

Waste and Water Project Operator 1, 2  
 Waste and Water Project Trainee Operator  
 Water Level Control Supervisor  
 Weigher

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#### Schedule 5

Agricultural Support OM-10, 11  
 Clerical Services CM-08, 09, 10, 11, 12, 13, 14, 15, 16, 17  
 Correctional OM-13, 14, 15, 16  
 Drafting, Design and Estimating TM-11, 12, 13  
 Engineering and Surveying Support TM-11, 12, 13, 14, 15  
 Food Services OM-08, 09, 10, 11  
 General Operational OM-08, 09, 10, 11  
 Information AM-16, 17  
 Institutional Care OM-10, 11, 12, 13  
 Office Equipment Operation CM-08, 09, 10, 11, 12, 13, 14  
 Photography TM-10, 11, 12, 13, 14, 15  
 Printing OM-09, 10, 11, 12, 13  
 Purchasing and Supply AM-12, 13  
 Resources, Technical TM-11, 12  
 Scientific Support TM-11, 12, 13, 14, 15  
 Skills and Trades OM-11, 12, 13, 14, 15, 16

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#### Schedule 6

Actuarial Science PM-16, 17, 18, 19, 20, 21, 22  
 Adviser, Ontario Police Commission  
 Agricultural Officer 1, 2  
 Agricultural Specialist 1, 2, 3  
 Agricultural Specialist 1, 2, Dairy  
 Agricultural Support OM-12, 13, 14  
 Agriculture PM-15, 16, 17, 18, 19, 20, 21  
 Ambulance Services OM-14, 15, 16, 17, 18  
 Architecture PM-15, 16, 17, 18, 19, 20, 21  
 Archival and Historical PM-14, 15, 16, 17, 18

Area Supply Supervisor (Bargaining Unit)	Highway Services Supervisor
Assistant Plant Superintendent, Air Service	Home Economist 1, 2, 3
Biologist 1, 2(a), 2(b)	Home Economics, Dietetics & Nutrition PM-10, 11, 12, 13, 14, 15, 16, 17, 18
Biologist 3 (Bargaining Unit)	Housing Analyst 1, 2
Chaplain PM-14, 15, 16, 17, 18, 19	Human Rights Officer 1, 2
Chief Inspector of Theatres	Immigration Officer
Chief Instructor, Ontario Police College	Industrial Development Officer 1, 2, 3
Child Care Worker 4	Information AM-18, 19, 20
Commercial Artist 3	Information Officer 1, 2, 3, 4
Commissioned Officer, 1, 2, 3, Ontario Provincial Police	Information Officer 1, 2, 3, 4 (Excluded)
Community Development Officer 1, 2, 3	Inspector, Operating Engineers' Branch
Community Planner 1, 2, 3, 4, 5	Institutional Care OM-14, 15, 16
Crown Counsel 1, 2, 3, 4, 5	Institutional Management AM-14, 15, 16, 17, 18, 19, 20, 21, 22, 23
Crown Counsel 1, 2, 3, 4 (Excluded)	Instructor 1, 2, 3, Ontario Police College
Dairy Herd Improvement Officer 1	Intelligence Officer, Ontario Police Commission
Dentistry PM-19, 20, 21, 22	Investigator 1, Agricultural Products
Deputy Director, Ontario Police College	Investigator 1, 2, Ontario Securities Commission
Deputy Senior 1, Administration of Justice	Labour Relations AM-15, 16, 17, 18, 19, 20, 21, 22, 23
Drafting, Design and Estimating TM-14, 15, 16, 17, 18, 19	Law Administration AM-11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
Driver Attendant, Minister	Law Court Administration AM-12, 13, 14, 15, 16, 17, 18, 19, 20, 21
Economics and Statistics PM-16, 17, 18, 19, 20, 21	Legal Survey Examiner 4
Economist 1, 2, 3, 4, 5 (Bargaining Unit)	Library Services PM-13, 14, 15, 16, 17
Education Adviser	Medical PM-19, 20, 21, 22, 23, 24, 25, 26
Education Officer	Mine Rescue Training Officer 1, 2
Education PM-18, 19, 20, 21, 22	Northern Affairs Officer 1, 2
Employment Standards Auditor 1, 2	Nursing PM-12, 13, 14, 15, 16, 17, 18, 19
Employment Standards Officer 1	Occupational and Physical Therapy PM-13, 14, 15, 16
Engineering and Surveying PM-11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	Occupational Health and Safety Inspector 1, 2
Engineering and Surveying Support TM-16, 17, 18, 19, 20, 21	Occupational Hygienist
Engineering Officer 3, 4	Office Equipment Operation CM-15
Engineering Services Officer 4, 5	Personnel Administration AM-12, 13, 14, 15, 16, 17, 18, 19, 20, 21
Executive Officer 1, 2, 3 (Bargaining Unit)	Pharmacy PM-15, 16, 17, 18, 19, 20, 21, 22
Executive Officer 1, 2 (Excluded)	Photography TM-16
Exhibition Designer 3	Pilot
Extension Assistant	Printing OM-14, 15
Financial Administration AM-12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	Probation Officer 1, 2
Financial Officer 1, 2, 3, 4, 5 (Bargaining Unit)	Program Analysis AM-16, 17, 18, 19, 20, 21
Financial Officer 1, 2 (Excluded)	Property Administration AM-15, 16, 17, 18, 19, 20, 21, 22
Financial Officer Trainee	Psychologist 2, 3
Food Services OM-12, 13, 14, 15, 16	Psychology PM-18, 19, 20, 21
Forester 1, 2(a), 2(b), 3, 4, 5	Publicity Photographer 1, 2, 3
French Language Services AM-20, 21, 22	Purchasing and Supply AM-14, 15, 16, 17, 18, 19, 20
General Administration AM-11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	Radiation Protection Physicist 1
General Operational OM-12, 13, 14, 15, 16, 17	Research Science PM-16, 17, 18, 19, 20, 21
General Scientific PM-15, 16, 17, 18, 19, 20, 21	Research Scientist 3, 4, 5, Natural Resources
Geoscientist 1, 2, 3, 4	Resource Technician, Senior 1, 2, 3, 4 (Bargaining Unit)
Heating and Power OM-11, 12, 13, 14, 15, 16, 17, 18	Resources Planning and Management PM-14, 15, 16, 17, 18, 19, 20, 21
Highway Equipment Supervisor 2, 3	Resources, Technical TM-13, 14, 15, 16, 17, 18
Highway Maintenance Supervisor	



Safety Instructor Officer 3 (Excluded)  
 Scientific Support TM-16, 17, 18  
 Scientist 4  
 Senior Air Engineer  
 Senior Biologist  
 Service Areas Manager  
 Skills and Trades OM-17, 18, 19  
 Social Programs Administration AM-13, 14, 15, 16, 17, 18,  
 19, 20, 21, 22  
 Social Work PM-15, 16, 17, 18, 19  
 Speech Pathology and Audiology PM-15, 16, 17, 18, 19  
 Statistician 1, 2, 3, 4  
 Supervisor 1, 2, Municipal Organization and Administration  
 Supervisor, Municipal Organization and Administration,  
 Trainee  
 Supreme Court Reporter 1  
 Systems Officer 1, 2, 3, 4, 5  
 Systems Officer 1, 2, 3, 4, 5 (Excluded)  
 Systems Officer Junior  
 Systems Officer Junior (Excluded)  
 Systems Services AM-11, 12, 13, 14, 15, 16, 17, 18,  
 19, 20, 21  
  
 Technical Consultant 1  
 Telecommunications TM-13, 14, 15, 16  
 Transcription Services CM-13, 14, 15, 16, 17, 18, 19  
 Translation AM-18, 19, 20  
  
 Veterinary Science PM-17, 18, 19, 20, 21  
 Vocational Training Supervisor 1  
 Volunteer Services Organizer  
  
 Workers' Compensation Adviser 1, 2

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### Schedule 7

Accident Claims Supervisor 1, 2  
 Accommodation Officer 3  
 Agricultural Technician 1, 2  
 Agricultural Worker 1, 2, 3  
 Ambulance Officer 1, 2, 3, 4  
 Arboriculturist 1  
 Architectural Job Captain 1, 2, 3  
 Attendant 1, 2, 3, 4, Oak Ridge  
 Audiologist Services Technician  
 Audiologist  
  
 Baker 1, 2  
 Bookbinder 1, 2  
 Boiler Inspector  
 Bridge Operator  
 Building Caretaker 1, 2, 6  
 Butcher 1  
  
 Cable Ferry Operator 1, 2  
 Canteen Operator 1, 2  
 Cartographer 1, 2

Cartographic Technician 1, 2, 3  
 Child Care Assistant 1, 2  
 Child Care Worker 1, 2, 3  
 Cleaner 1, 2, 3  
 Cleaner, Office Buildings  
 Clerk 1, 2, 3, 4, 5, 6, Supply  
 Constable  
 Constable (Probationary)  
 Construction Superintendent 1, 2, 3  
 Cook 1, 2  
 Cook 3 (Bargaining Unit)  
 Correctional Officer 1, 2, 3  
 Counsellor 1, 2, 3 (Residential Life)  
  
 Data Processing Technician 1, 2, 3, 4, 5, 6, 7  
 Data Processing Technician 2, 3, 4, 5, 6, 7 (Excluded)  
 Deckhand  
 Dental Assistant  
 Dental Hygienist  
 Deputy 1, 2, Administration of Justice  
 Drafter 1, 2  
 Drafter Tracer  
  
 E.E.G. Technician 1, 2, 3  
 Electronics Repairer  
 Electronics Technician  
 Electronics Technician 1, 2, Government Services  
 Elevator Attendant  
 Elevator Inspector 1, 3  
 Elevator Mechanic 1, 2, 3  
 Environmental Officer 1, 2, 3, 4, 5  
 Equipment Spray Painter  
 Estimator and Quantity Surveyor 1  
 Exhibition Designer 1, 2  
  
 Ferry Mate  
 Field Worker 1, 2, Homes for Special Care  
 Fire Services Investigator 1, 2  
  
 Garage Attendant  
 Garage Attendant Supervisor  
  
 Hairdresser  
 Helper, Food Service  
 Highway Equipment Operator 1, 2, 3, 4  
 Highway General Foreman/woman 1  
 Highway Labour Foreman/woman  
 Hospital Attendant 1  
  
 Indian Development Officer  
 Industrial Officer 1, 2, 3  
 Inspector 1, 2, Vehicle Inspection  
 Instructor 1, 2, 3, 4 (Occupational)  
 Instructor 1, 2, 3(a), Recreation and Crafts  
 Instrument Repairer 1, 2  
 Instrument Repairer, Foreman/Woman  
 Interior Designer 1, 2  
 Interior Designer, Trainee  
 Investigator of Estates

Junior Commercial Artist	Pharmacy Technician 1, 2
Junior Drafter	Photogrammetrist 1, 2, 3
Laboratory Attendant 1, 2	Platemaker 1, 2
Landscape Worker	Powderman/woman
Language and Citizenship Training Specialist 1	Preparator 1, 2
Laundry Worker 1, 2, 3, 4, 5	Printing Estimator
Librarian 1, 2, 3	Psychiatric Nursing Assistant 1, 2, 3, 4
Library Technician 1, 2, 3, 4	Psychologist 1
Lineman/woman	Psychometrist 1, 2
Maintenance Bricklayer	Radio and T.V. Repairer
Maintenance Carpenter	Radio Operator 1, 2, 3
Maintenance Carpenter, Foreman/woman	Records Officer Junior
Maintenance Electrician	Records Officer Junior (Excluded)
Maintenance Electrician, Foreman/woman	Records Officer 1, 2
Maintenance Foreman/woman	Records Officer 1, 2 (Excluded)
Maintenance Machinist	Recreation Officer 1, 2, Correctional Services
Maintenance Machinist, Foreman/woman	Rehabilitation Officer 1, 2, Correctional Services
Maintenance Mason	Rehabilitation Officer 1, 2, Health
Maintenance Mécanic 1, 2, 3	Residence Supervisor 1
Maintenance Painter and Decorator	Resource Technician 1, 2, 3, 4
Maintenance Painter and Decorator, Foreman/woman	Security Officer 1, 2, 3
Maintenance Plasterer	Senior Bridge Operator
Maintenance Plasterer, Foreman/woman	Senior Marine Engineer 1, 2
Maintenance Plumber	Senior Usher and Messenger
Maintenance Plumber, Foreman/woman	Sergeant, Ontario Provincial Police
Maintenance Refrigeration Mechanic	Services Officer 1 (Bargaining Unit)
Maintenance Refrigeration Mechanic, Foreman/woman	Services Supervisor 2
Maintenance Sheet Metal Worker	Sewer 1, 2
Maintenance Steamfitter	Sheriff's Officer 1, 2
Maintenance Welder	Sign Painter
Manual Worker	Sign Painter, Foreman/woman
Marine Engineer 1, 2	Sign Painter, Helper
Meat Inspector 1	Sign Painter, Improver
Mechanic 1, 2	Social Work Assistant
Mechanic Foreman/woman	Social Worker 1, 2
Medical Assistant 1, 2, 3	Speech Therapist
Mill Worker 1, 2	Staff Sergeant, Ontario Provincial Police
Motor Vehicle Operator 1, 2	Standards Officer 1, 2, Industrial Training
Nurse 1, 2, Clinic	Standards Officer 1, 2, Industrial Training (Excluded)
Nurse 1, 2, 3, General	Steam Plant Chief 2
Nurse 1, 2, 3, Nursing Education	Steam Plant Engineer 1, 2, 3
Nurse 1, 2, 3, Public Health	Steam Plant Technician 1, 2
Observation and Detention Home Worker 1, 2, 3	Steward
Occupational Therapist 1, 2, 3	Supervisor 1, Food Service (Bargaining Unit)
Office Administration 1, 2, 3, 4, 5, 6, 7, 8, 9	Supervisor of Juveniles 1, 2
Office Administration 1, 2, 3, 4, 5, 6, 7, 8, 9	Supervisor of Operations (Bargaining Unit)
(Excluded)	Tailor
Operator 1, 2, Bindery Equipment	Technician 1, 2, 3, Chemical Laboratory
Operator 1, 2, 3, Microfilm	Technician 1, 2, Field
Operator 1, 2, 3, Offset Equipment	Technician 1, 2, 3, Fuel
Operator 1, 2, 3, Whiteprint Equipment	Technician 1, 2, 3, 4, Photographic
Operator 4, X-Ray Unit	Technician 1, 2, 3, Physical Laboratory
Parking Attendant	Technician 1, 2, 3, Radiation
Pesticide Control Officer 1, 2, 3	Technician 1, 2, 3, Road Design
Pharmacist - Staff	Technician 1(a), 1(b), X-Ray
	Technologist 1, 2, Medical Laboratory
	Telephone Installer 1, 2, 3

Trade Instructor 1, 2, 3  
 Trades Apprentice  
 Traffic Analyst 1, 2, 3  
 Traffic Patroller 1, 2, Transportation and  
 Communications  
 Trainee (M.R.C. Course), Health  
 Translator 1, 2, 3  
 Transport Despatcher  
 Transport Driver  
 Travel Counsellor 1, 2, 3

Upholstery Repairer  
 Usher and Messenger

Volunteer Services Assistant

Waste and Water Project Operator 1, 2  
 Waste and Water Project Trainee Operator  
 Welfare Field Worker 1, 2  
 Welfare Field Worker (Probationary)

O. Reg. 411/90, s. 6, *part*.

## 7. Section 6 comes into force on the 1st day of September, 1990.

CIVIL SERVICE COMMISSION:

ELAINE TODRES  
*Chairman*

Dated at Toronto, this 16th day of July, 1990.

32/90

## PENSION BENEFITS ACT, 1987

### O. Reg. 412/90.

General.

Made—July 27th, 1990.

Filed—July 27th, 1990.

## REGULATION TO AMEND ONTARIO REGULATION 708/87 MADE UNDER THE PENSION BENEFITS ACT, 1987

### 1. Ontario Regulation 708/87 is amended by adding the following sections:

7c.—(1) The criteria described in this section must be met before the Commission may consent to the payment of money that is surplus out of a continuing pension plan to the employer.

(2) All persons who are entitled to receive benefits under the pension plan and all members must con-

sent to the terms upon which the surplus is to be paid out of the plan.

(3) All persons in respect of whom the administrator has purchased a pension, deferred pension or ancillary benefit, other than those persons who requested that the administrator do so, must consent to the terms upon which the surplus is to be paid out of the pension plan.

(4) The pension plan must provide that a former member's contributions to the plan and the interest on the contributions shall not be used to provide more than 50 per cent of the commuted value of a pension or deferred pension in respect of contributory benefits to which the member is entitled under the plan on termination of membership or employment.

(5) The pension plan must provide that a former member who is entitled to a pension or deferred pension on termination of employment or membership is entitled to payment from the pension fund of a lump sum payment equal to the amount by which the former member's contributions under the plan and the interest on the contributions exceed one-half of the commuted value of the former member's pension or deferred pension in respect of the contributory benefits.

(6) The share, if any, of the surplus allocated to each person, other than the employer, must not be provided in the form of a cash refund.

(7) Despite subsection (6), a cash refund of contributions may be made in accordance with subsection 64 (7) of the Act.

(8) If surplus is allocated to a person to increase the person's benefits, the person must be offered the choice of receiving the surplus in the form of inflation adjustments to the existing benefits.

(9) The inflation adjustments that are provided must be made,

- (a) by indexing the benefits in accordance with a formula based upon increases in the annual Consumer Price Index;
- (b) by providing an annual percentage increase in the amount of the benefits or an annual increase of a specified dollar amount; or
- (c) by a combination of the methods described in clauses (a) and (b).

(10) For the purpose of subsection (9), the employer may select the method for providing the inflation adjustments.

(11) The pension plan must state who is entitled, or must provide a mechanism for determining who is entitled, to any surplus in the plan after the payment



of surplus to which the Commission is being asked to consent.

(12) Subsection (11) applies with respect to applications under section 79 of the Act made after the 31st day of October, 1990. O. Reg. 412/90, s. 1, *part*.

**23a.** For the purpose of subsection 80 (10) of the Act, the prescribed date is the day on which this section comes into force. O. Reg. 412/90, s. 1, *part*.

32/90

**CORRECTION**

**O. Reg. 278/90 under the *Highway Traffic Act* published June 16th, 1990.**

**Subsection 2 (2) of Ontario Regulation 278/90, as set out below,**

**(2) Part 4 of Schedule 6 is amended by adding the following paragraph:**

**26. That part of the King's Highway known as No. 7 in the Township of Belmont and Methuen in the County of Peterborough beginning at a point situate 150 metres measured easterly from its intersection with the westerly limit of the roadway known as Mary Street and extending easterly for a distance of 450 metres.**

**should have read as follows:**

**(2) Part 4 of Schedule 6 is amended by adding the following paragraph:**

**27. That part of the King's Highway known as No. 7 in the Township of Belmont and Methuen in the County of Peterborough beginning at a point situate 150 metres measured easterly from its intersection with the westerly limit of the roadway known as Mary Street and extending easterly for a distance of 450 metres.**

32/90



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### Information

THE ONTARIO GAZETTE is published each Saturday and **advertisements must be received no later than Thursday 4 p.m., 9 days before publication of the issue in which they should appear.**

Advertisements including the names of any signing officers must be typed or written legibly. Advertising rates are: \$14.40 per 25 mm for a single column and \$29.20 per 25 mm for a double column.

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**Cheques or money orders** should be made payable to THE TREASURER OF ONTARIO and all correspondence, including address changes, should be mailed to:

THE ONTARIO GAZETTE  
5th Floor, 880 Bay Street, Toronto, Ontario M7A 1N8  
Telephone 326-5310  
Toll-Free 1-800-668-9938

### Information

LA GAZETTE DE L'ONTARIO paraît chaque samedi, et les annonces à y insérer doivent parvenir à ses bureaux le jeudi à 16 h au plus tard, soit au moins neuf jours avant la parution du numéro dans lequel elles figureront.

Les annonces, ainsi que le nom des signataires autorisés, doivent être dactylographiées ou écrites lisiblement. Les tarifs sont de 14,40 \$ par 25 mm, pour une colonne, et de 29,20 \$ par 25 mm, pour deux colonnes.

Le tarif d'abonnement est de 104,00 \$ pour 52 numéros hebdomadaires, et le tarif à l'unité, de 2,25 \$ (payable à l'avance). Tous les tarifs peuvent être augmentés sans préavis.

**Les chèques ou mandats** doivent être faits à l'ordre DU TRÉSORIER DE L'ONTARIO et toute correspondance, y compris les changements d'adresse, doit être adressée à :

LA GAZETTE DE L'ONTARIO  
880, rue Bay, 5<sup>e</sup> étage, Toronto, (Ontario) M7A 1N8  
Téléphone 326-5310  
Appel sans frais 1-800-668-9938



# The Ontario Gazette La Gazette de l'Ontario

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Toronto

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Samedi, le 18 août 1990



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# The Ontario Gazette La Gazette de l'Ontario

Vol. 123-33

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Saturday, August 18th, 1990

Samedi, le 18 août 1990

## Proclamations

(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS  
SHALL COME,

GREETING:

### PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989 intitled the *Occupational Health and Safety Statute Law Amendment Act, 1990*, Statutes of Ontario, 1990, chapter 7, it is enacted thereof that the said Act shall come into force on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now issue bringing sections 6, 7, 8, 35, 41 and 42 of the said Act into force;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Wednesday, the fifteenth day of August, 1990 as the day upon

which sections 6, 7, 8, 35, 41 and 42 of the said Act intituled the *Occupational Health and Safety Statute Law Amendment Act, 1990*, Statutes of Ontario, 1990, chapter 7, shall come into force.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this twenty-seventh day of July, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres

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4581



royaumes et territoires, Chef du Commonwealth,  
Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉ-  
SENTES.

SALUT :

### PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1990 modifiant la Loi sur la santé et la sécurité au travail*, chapitre 7 des Lois de l'Ontario 1990, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre les articles 6, 7, 8, 35, 41 et 42 de ladite loi en vigueur;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le mercredi quatorzième jour de d'août 1990 comme étant le jour où les articles 6, 7, 8, 35, 41 et 42 de ladite loi intitulée *Loi de 1990 modifiant la Loi sur la santé et la sécurité au travail*, chapitre 7 des Lois de l'Ontario 1990, entreront en vigueur.

DE TOUTES CES PRÉMISSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER,  
membre de Notre Conseil privé pour le Canada,  
l'un de Nos conseillers juridiques, Bachelier  
ès arts, Docteur en droit, LIEUTENANT-  
GOUVERNEUR DE NOTRE PROVINCE DE  
L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce  
vingt-septième jour de juillet de l'année mil neuf  
cent quatre-vingt-dix de notre ère et dans la trente-  
neuvième année de Notre règne.

PAR ORDRE

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(4508) 33

## MOTOR VEHICLE TRANSPORT ACT, 1987

### LOI DE 1987 SUR LES TRANSPORTS ROUTIERS

#### MOTOR VEHICLE TRANSPORT ACT, 1987, PART II TRUCK APPLICATIONS:

The following are applications for extra-provincial truck transport operating licences under Part II of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These Applicants have been found to meet the fitness requirements pursuant to Section 8 (2) of that Act and the provincial transport board for Ontario proposes to issue the licences if no objection is served on the Applicant and filed with the Registrar of Motor Vehicles with the prescribed filing fee, within twenty-nine days of this publication.

#### EXTRA-PROVINCIAL APPLICATIONS:

**NOTE:** Where the application is for a licence other than a corridor operating authority, an interested person who serves and files an objection must also provide the Ontario Highway Transport Board with written evidence, within thirty-nine days of this publication that satisfies that Board that, in the absence of evidence to the contrary, the operation of the undertaking in respect of which the licence is sought would likely be detrimental to the public interest.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below for extra-provincial movement, between (00000) POINTS IN ONTARIO and the:

#### ONTARIO/QUEBEC, ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:

**\*A. J. BOUCHARD TRUCKING LTD** 090379769  
912 1-ST E BX960 Original  
GERALDTON, ONTARIO  
P0T 1M0  
GENERAL FREIGHT.

**\*BONCHEFF, TOMMY, G** 068520507  
2 DELROY DR Original  
ETOBICOKE, ONTARIO  
M8Y 1M7  
GENERAL FREIGHT.

**\*BORCROSS FREIGHT SERVICES**  
CORPORATION 102661612  
70 NORTH GATES AVE Original  
LACKAWANNA NEW YORK, USA  
14218  
GENERAL FREIGHT.

<b>*BORCROSS FREIGHT SERVICES INC.</b> 24 MOBILE DRIVE TORONTO, ONTARIO M4A 1J2 GENERAL FREIGHT.	<b>102660812</b> Original	<b>EASE TRANSPORTATION INCORPORATED</b> 5241 NEW PEACHTREE RD STE H ATLANTA GA, USA 30341 GENERAL FREIGHT.	<b>102723839</b> Original
<b>*BROWN, GEORGE, M</b> PT L5 CON6 FLAM TP BRANCHTON RR2, ONTARIO N0B 1L0 SINGLE SOURCE.	<b>027412264</b> Original	<b>*FLOWERS, BRIEN, K</b> LT52 MILTON HTS CAMPGROUND MILTON, ONTARIO L9T 4Z1 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>084784586</b> Original
<b>*BRUSH, TIMOTHY, M</b> L22 C5 STEPHENSON TP PORT SYDNEY, ONTARIO P0B 1L0 OWNER DRIVER, exempt from Public Interest Test.	<b>039014935</b> Original	<b>*GARY L. CUNNINGHAM TRANSPORT LTD.</b> 3935 CODERRE ST HUBERT QUEBEC J3Y 4P8 OWNER DRIVER, exempt from Public Interest Test.	<b>091127042</b> Original
<b>*CADIEUX, MAURICE</b> 67 CHEMIN FOURNIER CP18 ST-WALERE QUEBEC G0P 1M0 OWNER DRIVER, exempt from Public Interest Test.	<b>102486043</b> Original	<b>*GIBSON, DAVID, A, R</b> 151 VICTORIA ST E CREDITON, ONTARIO N0M 1M0 GENERAL FREIGHT.	<b>059141000</b> Original
<b>*CARGO TRANSPORTERS INC.</b> PO BOX 339 N OXFORD STREET, 3350 NORTH OXFORD ST., CLAREMONT NC, USA 28610 GENERAL FREIGHT.	<b>102299599</b> Original	<b>*GILMAR, KEITH, E</b> L1 C3 SWOXFORD BURGEVILLE R1, ONTARIO N0J 1C0 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>020546386</b> Original
<b>D.T.L. CARRIERS INC.</b> 10065 RT60 FREDONIA NEW YORK, USA 14063 GENERAL FREIGHT; TANK.	<b>102422477</b> Original	<b>*GIRARD, MARC</b> 566 ATKINSON WINDSOR, ONTARIO N8X 3G9 GENERAL FREIGHT.	<b>059161023</b> Original
<b>*DAVIS, JOSEPH, A</b> L19 C5 NORWICH WOODSTOCK R4, ONTARIO N4S 7V8 GENERAL FREIGHT; TANK.	<b>027812167</b> Original	<b>*HARLOW, ROBERT, A</b> L38 C2 S GOWER TP KEMPTVILLE RR1, ONTARIO K0G 1J0 SINGLE SOURCE.	<b>063179281</b> Original
<b>*DAY, JOHN, THOMAS</b> L33 C6 CRAMAHE CASTLETON, ONTARIO K0K 1M0 GENERAL FREIGHT.	<b>035541338</b> Amend	<b>*HAYES, WILLARD</b> L12 C9 CUMBERLAND TP BX182 NAVAN, ONTARIO K4B 1J4 GENERAL FREIGHT.	<b>016882207</b> Amend
<b>*DONALD, LAWRENCE, S</b> 99 ONDREY ST BRADFORD, ONTARIO L3Z 2X1 OWNER DRIVER, exempt from Public Interest Test.	<b>027920639</b> Original	<b>*HIERONYMUS, PERRY, W</b> 909 MICHAELS CRES BAILIEBORO RR1, ONTARIO K0L 1B0 GENERAL FREIGHT.	<b>043953984</b> Original
<b>*DYKSTRA, JOHN, A</b> L17 C15 LND LONDON R2, ONTARIO N6A 4B6 GENERAL FREIGHT.	<b>031849194</b> Original	<b>*HOCKNEY, ROBERT, H</b> L32 C4 NEWCASTLE BOWMANVILLE R3, ONTARIO L1C 3K4 GENERAL FREIGHT.	<b>024671570</b> Original



<b>*HOLDEN, KENNETH</b> 700 OSGOOD DR UN152 LONDON, ONTARIO N6E 2C7 GENERAL FREIGHT.	<b>051708978</b> Original	<b>*LALLEMAND INC</b> 151 SKYWAY AVE REXDALE, ONTARIO M9W 4Z5 GENERAL FREIGHT.	<b>076658220</b> Original
<b>*HUMPHREY EXPRESS INC.</b> 403 MARGARET AVE WALLACEBURG, ONTARIO N8A 2A8 GENERAL FREIGHT; TANK.	<b>091160155</b> Amend	<b>*LAMWAY SYSTEMS INC</b> 127 MABERLEY CR SCARBOROUGH, Ontario M1C 3Y1 GENERAL FREIGHT; TANK.	<b>085249409</b> Original
<b>*HURD, CAREY, D</b> 3529 VICTORIA AVE REGINA SASK S4T 1M2 GENERAL FREIGHT.	<b>102075856</b> Original	<b>*LAROCQUE, JAMES, A</b> L26 C6 OSGOOD TP. METCALFE R3, ONTARIO K0A 2P0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (20610) OSGOOD TP.	<b>070030901</b> Amend
<b>*HURLBERT, VAUGHN</b> PART L16 C4 BROCK TWP SUNDERLAND RR4, ONTARIO L0C 1H0 GENERAL FREIGHT; TANK.	<b>063353994</b> Original	<b>*LECLERC, NOEL, J</b> L39 RGE-B ROLPH BOX 51 DEEP RIVER, ONTARIO K0J 1P0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (69619) ROLPH, BUCH'N, WYLIE, MCKAY TP.	<b>076660203</b> Amend
<b>*HURLBERT, VAUGHN, JAMES</b> L17 C4 BROCK TP BX 253 SUNDERLAND (DURHAM), ONTARIO L0C 1H0 GENERAL FREIGHT; TANK.	<b>020883004</b> Original	<b>*LEONARD, GARY, A</b> 34-1470 JALNA BL LONDON, ONTARIO N6E 3H7 GENERAL FREIGHT.	<b>032846952</b> Original
<b>*HUSTON, EDWARD, BOYD</b> L1 C7 VESPRE TP MINESING RR2, ONTARIO L0L 1Y0 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>040191316</b> Original	<b>*LES ENTREPRISES DRAF INC</b> 487 CARTIER SEPT ILES QUEBEC G4R 4K5 SINGLE SOURCE; GENERAL FREIGHT.	<b>101600393</b> Original
<b>JACK GRAY TRANSPORT INC</b> 4600 E 15TH AVE GARY INDIANA, USA 46403 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>084867970</b> Amend	<b>*LES TRANSPORTS JEAN-GUY RIENDEAU INC.</b> 317 ST. FRANCOIS-XAVIER DELSON, QUEBEC J0L 1G0 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>073456813</b> Original
<b>JONES, ROYAL/RAY, JIMMY, A</b> 3530 W PICHCHO LAS CRUCES N M, USA 88005 GENERAL FREIGHT.	<b>102579364</b> Original	<b>LINDEN MOTOR FREIGHT CO. INC.</b> 1300 LOWER ROAD LINDEN NEW JERSEY, USA 07036 GENERAL FREIGHT; TANK.	<b>102723692</b> Original
<b>*L A DALTON SYSTEMS INC</b> 40 PURITAN CRT STONEY CREEK, ONTARIO L8E 4L1 GENERAL FREIGHT.	<b>083725564</b> Amend	<b>*MARSHAR TRUCKING INC</b> 124 GRACIE ST SHELBURNE, ONTARIO L0N 1S0 GENERAL FREIGHT.	<b>044614751</b> Original

<b>*MAVES, TERRY, WILFRED</b> 6 RIVER DR PEMBROKE R6, ONTARIO K8A 6W7 GENERAL FREIGHT; TANK.	<b>081176864</b> Original	<b>*SODROX CHEMICALS LTD.</b> L2 C2 GUELPH TP. GUELPH R6, ONTARIO N1H 6J3 GENERAL FREIGHT; TANK.	<b>073945910</b> Original
<b>*MAY, GRANT, W</b> L28 C5 LONDON TP HYDE PARK R1, ONTARIO N0M 1Z0 SINGLE SOURCE; GENERAL FREIGHT.	<b>085702012</b> Original	<b>*SONEGO, FRANK</b> 939 NIPIGON AV THUNDER BAY, ONTARIO P7E 3E9 GENERAL FREIGHT.	<b>018631137</b> Amend
<b>*P &amp; D LIVESTOCK INC</b> 772 BRUCE ST BOX 2170 PORT ELGIN, ONTARIO N0H 2C0 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (41000) BRUCE CO.	<b>056689776</b> Original	<b>STAR TRANSPORTATION INC.</b> 1909 FOSTER AVE BX100906 NASHVILLE TN, USA 37210 GENERAL FREIGHT.	<b>102735795</b> Original
<b>*PHIEFFER, H, J, NEIL</b> 92 LEMOINE ST BELLEVILLE, ONTARIO K8P 4H1 GENERAL FREIGHT; TANK.	<b>064457117</b> Original	<b>*TRANSPORT A.D. PLANTE INC.</b> 675 CHEMIN BELAIR ST JEAN CHRYSOSTOME PQ G6Z 2L2 SINGLE SOURCE; GENERAL FREIGHT.	<b>091649004</b> Original
<b>*POIRIER, MICHAEL</b> 841 DENISE ST TIMMINS, ONTARIO P4N 7M5 GENERAL FREIGHT.	<b>064493767</b> Original	<b>*TRANSPORT CLAUDE DEMERS INC.</b> 563 RUE MARCEL GRANBY QUEBEC J2G 3C7 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>087163357</b> Original
<b>*PUMA TRANSPORT INC.</b> 5945 AIRPORT RD STE348 MISSISSAUGA, ONTARIO L4V 1R9 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21102) MISSISSAUGA C.	<b>101929868</b> Original	<b>ULCH TRANSPORT LTD</b> 97 BROCK ST. ST. MARY'S, ONTARIO N0M 2V0 GENERAL FREIGHT; TANK.	<b>045923465</b> Amend
<b>R. BECKER ENTERPRISES INCORPORATED</b> HWY41 W4365 PINEWOODS LOOP 12 WALLACE MI, USA 49893 GENERAL FREIGHT.	<b>102636719</b> Original	<b>*146257 CANADA INC.</b> 611 DE MONTENACH BELOEIL QC J3G 2P3 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>102516967</b> Original
<b>*RAY EXPRESS COURRIER INC.</b> 2663 RUE PITFIELD ST LAURENT QUEBEC H4S 1T2 GENERAL FREIGHT.	<b>102098962</b> Original	<b>*166093 CANADA INC.</b> 100 MONTEE DORION ST-EUSTACHE QUEBEC J7R 4K3 SINGLE SOURCE.	<b>102605085</b> Original
<b>*ROD SOKOLOWSKI TRUCKING LTD.</b> 93 KEARNEY DR AJAX, ONTARIO L1T 2V7 GENERAL FREIGHT; TANK.	<b>102382162</b> Original	<b>*172741 CANADA INC.</b> 2090-A LAPIERRE ST LASALLE QUEBEC H8N 1B2 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>102274765</b> Original
<b>*ROSS, ROBERT, KENNETH</b> 15 LOUISA ST W BX 465 THORNBURY, ONTARIO N0H 2P0 SINGLE SOURCE.	<b>022235948</b> Original		

*2753-2142 QUEBEC INC. 246 ROUTE 202 HUNTINGDON QUEBEC J0S 1H0 SINGLE SOURCE; GENERAL FREIGHT.	102697461 Original	TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R.	
*460496 ONTARIO INC 2667 LOWER BASE LINE MILTON R1, ONTARIO L9T 2X5 GENERAL FREIGHT.	051177689 Amend	*872476 ONTARIO LIMITED 51 OTTAWAY AVE BARRIE, ONTARIO L4M 2W8 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (70101) BARRIE C, (25000) WATERLOO R.	102462973 Original
*634934 ONTARIO LTD 275 NORTH ST NEWCASTLE, ONTARIO L0A 1H0 SINGLE SOURCE; GENERAL FREIGHT; TANK.	085456122 Original	*877394 ONTARIO INC. 127 MABERLEY CRES SCARBOROUGH, ONTARIO M1C 3Y1 SINGLE SOURCE; GENERAL FREIGHT; TANK.	102321328 Original
*656810 ONTARIO LIMITED 134 NELSON ST OTTAWA, ONTARIO K1N 7R5 HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R, (20000) OTTAWA-CARLETON R.	082687219 Amend	*889622 ONTARIO INC. 525 GEORGE ST PO BOX 1268 HEARST, ONTARIO P0L 1N0 GENERAL FREIGHT; TANK.	102447576 Original
*685823 ONTARIO LTD. 1764 VICTORIA STREET NORTH KITCHENER, ONTARIO N2B 3E5 GENERAL FREIGHT.	102779510 Original	ONTARIO/QUEBEC, ONTARIO/USA BORDER CROSSINGS:	
*693207 ONT INC 330 BRITANNIA RD E MISSISSAUGA, ONTARIO L4Z 1X9 SINGLE SOURCE; GENERAL FREIGHT.	084994172 Original	*PETERS BROS. TRUCKING INC. 30 GOSHEN ST ZURICH, ONTARIO N0M 2T0 GENERAL FREIGHT; TANK.	102384481 Original
*709740 ONTARIO INC 4078 WOODINGTON DR MISSISSAUGA, ONTARIO L4Z 1K3 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R.	086280263 Original	SOUTH EAST CARRIERS INC. 1905 MAHR AVE BOX 754 LAWRENCEBURG TN, USA 38464 GENERAL FREIGHT.	102522600 Original
*715270 ONTARIO INC. 10587 SODOM RD NIAGARA FALLS R3, ONTARIO L2E 6S6 GENERAL FREIGHT; TANK.	102433258 Original	ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:	
*788735 ONTARIO INC. 343 MONARCH PARK AVE TORONTO, ONTARIO M4J 4T4 GENERAL FREIGHT.	102185640 Original	GOLDEN VALLEY TRANSPORTATION INC. 504 NORTH 3500 EAST RIGBY IDAHO, USA 83442 GENERAL FREIGHT.	102196654 Original
*847284 ONTARIO INC. 6107 GEMINI CRES MISSISSAUGA, ONTARIO L5N 6B7 SINGLE SOURCE; GENERAL FREIGHT;	100784364 Original	ONTARIO/QUEBEC BORDER CROSSINGS:	
		*HORST, FLOYD, S L20 C14 WELLESLEY TP WALLENSTEIN R3, ONTARIO N0B 2S0 GENERAL FREIGHT.	084185762 Amend
		*HUTLEY LOG HOMES LTD. L23-24 C9 STEPHENSON BOX 2711 HUNTSVILLE, ONTARIO P0A 1K0 GENERAL FREIGHT.	009306318 Original



**ONTARIO/USA BORDER CROSSINGS:**

**\*BEAN, BURTON, WILLIAM** 058103009  
 L3 C1 GODERICH TP Original  
 GODERICH R2, ONTARIO  
 N7A 3X8  
 GENERAL FREIGHT; TANK.

**\*HARKOW AGGREGATES & RECYCLING LTD.** 076697743  
 99A COMMISSIONERS ST Original  
 TORONTO, ONTARIO  
 M5A 1A6  
 GENERAL FREIGHT.

**HEDGE AND HERBERG INC.** 102615078  
 JCT DAKOTA & MAIN PO BOX98 Original  
 BIG STONE CITY SD, USA  
 57216  
 GENERAL FREIGHT.

**\*HERMISTON, GLENN, M** 047802269  
 L1 CHRISTIE TP BX79 Original  
 PARRY SOUND R3, ONTARIO  
 P2A 2W9  
 GENERAL FREIGHT.

**\*MATTICE, CHARLES, W** 036924753  
 L7 C14 WALPOLE TP Original  
 HAGERSVILLE, ONTARIO  
 N0A 1H0  
 GENERAL FREIGHT.

**R & J TRANSPORT INC.** 100305843  
 608 N 41ST STREET Original  
 MANITOWOC WISCONSIN, USA  
 54220  
 GENERAL FREIGHT.

## MOTOR VEHICLE TRANSPORT ACT, 1987 LOI DE 1987 SUR LES TRANSPORTS ROUTIERS

**INTRA-PROVINCIAL TRUCK APPLICATIONS:**

The following are applications for operating licences under Part III of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These applicants have been found to meet the fitness requirement in like manner to section 6 of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and the provincial transport board for Ontario proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test in like manner to Subsection 7 (4) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64.

**NOTE:** A person who requests a public interest hearing must, within thirty-nine days of this publication, serve on the Ontario Highway

Transport Board a document that makes out a written case to the Board that the granting of the operating authority applied for would be likely to have a significant detrimental effect on the public interest using the criteria set out in subsection 10 (1) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and that the request is not frivolously made.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:

**\*A. J. BOUCHARD TRUCKING LTD** 090379769  
 912 1-ST E BX960 Original  
 GERALDTON, ONTARIO  
 P0T 1M0  
 GENERAL FREIGHT.

**\*BEAN, BURTON, WILLIAM** 058103009  
 L3 C1 GODERICH TP Original  
 GODERICH R2, ONTARIO  
 N7A 3X8  
 GENERAL FREIGHT; TANK.

**\*BONCHEFF, TOMMY, G** 068520507  
 2 DELROY DR Original  
 ETOBICOKE, ONTARIO  
 M8Y 1M7  
 GENERAL FREIGHT.

**\*BORCROSS FREIGHT SERVICES CORPORATION** 102661612  
 70 NORTH GATES AVE Original  
 LACKAWANNA NEW YORK, USA  
 14218  
 GENERAL FREIGHT.

**\*BORCROSS FREIGHT SERVICES INC.** 102660812  
 24 MOBILE DRIVE Original  
 TORONTO, ONTARIO  
 M4A 1J2  
 GENERAL FREIGHT.

**\*BROWN, GEORGE, M** 027412264  
 PT L5 CON6 FLAM TP Original  
 BRANCTON RR2, ONTARIO  
 N0B 1L0  
 SINGLE SOURCE; GENERAL FREIGHT.

**\*BRUSH, TIMOTHY, M** 039014935  
 L22 C5 STEPHENSON TP Original  
 PORT SYDNEY, ONTARIO  
 P0B 1L0  
 OWNER DRIVER, exempt from Public Interest Test.

*CADIEUX, MAURICE 67 CHEMIN FOURNIER CP18 ST-WALERE QUEBEC G0P 1M0 OWNER DRIVER, exempt from Public Interest Test.	102486043 Original	*GIRARD, MARC 566 ATKINSON WINDSOR, ONTARIO N8X 3G9 GENERAL FREIGHT.	059161023 Original
*CARGO TRANSPORTERS INC. PO BOX 339 N OXFORD STREET, 3350 NORTH OXFORD ST., CLAREMONT NC, USA 28610 GENERAL FREIGHT.	102299599 Original	*HARKOW AGGREGATES & RECYCLING LTD. 99A COMMISSIONERS ST TORONTO, ONTARIO M5A 1A6 GENERAL FREIGHT.	076697743 Original
*DAVIS, JOSEPH, A L19 C5 NORWICH WOODSTOCK R4, ONTARIO N4S 7V8 GENERAL FREIGHT; TANK.	027812167 Original	*HARLOW, ROBERT, A L38 C2 S GOWER TP KEMPTVILLE RR1, ONTARIO K0G 1J0 SINGLE SOURCE.	063179281 Original
*DAY, JOHN, THOMAS L33 C6 CRAMAHE CASTLETON, ONTARIO K0K 1M0 GENERAL FREIGHT.	035541338 Amend	*HAYES, WILLARD L12 C9 CUMBERLAND TP BX182 NAVAN, ONTARIO K4B 1J4 GENERAL FREIGHT.	016882207 Amend
*DONALD, LAWRENCE, S 99 ONDREY ST BRADFORD, ONTARIO L3Z 2X1 OWNER DRIVER, exempt from Public Interest Test.	027920639 Original	*HERMISTON, GLENN, M L1 CHRISTIE TP BX79 PARRY SOUND R3, ONTARIO P2A 2W9 GENERAL FREIGHT.	047802269 Original
*DYKSTRA, JOHN, A L17 C15 LND LONDON R2, ONTARIO N6A 4B6 GENERAL FREIGHT.	031849194 Original	*HIERONYMUS, PERRY, W 909 MICHAELS CRES BAILIEBORO RR1, ONTARIO K0L 1B0 GENERAL FREIGHT.	043953984 Original
*FLOWERS, BRIEN, K LT52 MILTON HTS CAMPGROUND MILTON, ONTARIO L9T 4Z1 SINGLE SOURCE; GENERAL FREIGHT; TANK.	084784586 Original	*HOCKNEY, ROBERT, H L32 C4 NEWCASTLE BOWMANVILLE R3, ONTARIO L1C 3K4 GENERAL FREIGHT.	024671570 Original
*GARY L. CUNNINGHAM TRANSPORT LTD. 3935 CODERRE ST HUBERT QUEBEC J3Y 4P8 OWNER DRIVER, exempt from Public Interest Test.	091127042 Original	*HOLDEN, KENNETH 700 OSGOODE DR UN152 LONDON, ONTARIO N6E 2C7 GENERAL FREIGHT.	051708978 Original
*GIBSON, DAVID, A, R 151 VICTORIA ST E CREDITON, ONTARIO N0M 1M0 GENERAL FREIGHT; TANK.	059141000 Original	*HORST, FLOYD, S L20 C14 WELLESLEY TP WALLENSTEIN R3, ONTARIO N0B 2S0 GENERAL FREIGHT.	084185762 Amend
*GILMAR, KEITH, E L1 C3 SWOXFORD BURGUSSVILLE R1, ONTARIO N0J 1C0 SINGLE SOURCE; GENERAL FREIGHT; TANK.	020546386 Original	*HUMPHREY EXPRESS INC. 403 MARGARET AVE WALLACEBURG, ONTARIO N8A 2A8 GENERAL FREIGHT; TANK.	091160155 Amend
		*HURD, CAREY, D 3529 VICTORIA AVE REGINA SASK S4T 1M2 GENERAL FREIGHT.	102075856 Original

*HURLBERT, VAUGHN PART L16 C4 BROCK TWP SUNDERLAND RR4, ONTARIO L0C 1H0 GENERAL FREIGHT; TANK.	063353994 Original	*LEONARD, GARY, A 34-1470 JALNA BL LONDON, ONTARIO N6E 3H7 GENERAL FREIGHT.	032846952 Original
*HURLBERT, VAUGHN, JAMES L17 C4 BROCK TP BX 253 SUNDERLAND (DURHAM), ONTARIO L0C 1H0 GENERAL FREIGHT; TANK.	020883004 Original	*LES ENTREPRISES DRAF INC 487 CARTIER SEPT ILES QUEBEC G4R 4K5 SINGLE SOURCE; GENERAL FREIGHT.	101600393 Original
*HUSTON, EDWARD, BOYD L1 C7 VESPA TP MINESING RR2, ONTARIO L0L 1Y0 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	040191316 Original	*LES TRANSPORTS JEAN-GUY RIENDEAU INC. 317 ST. FRANCOIS-XAVIER DELSON, QUEBEC J0L 1G0 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	073456813 Original
*HUTLEY LOG HOMES LTD. L23-24 C9 STEPHENSON BOX 2711 HUNTSVILLE, ONTARIO P0A 1K0 GENERAL FREIGHT.	009306318 Original	*MARSHAR TRUCKING INC 124 GRACIE ST SHELBURNE, ONTARIO L0N 1S0 GENERAL FREIGHT.	044614751 Original
*L A DALTON SYSTEMS INC 40 PURITAN CRT STONE CREEK, ONTARIO L8E 4L1 GENERAL FREIGHT.	083725564 Amend	*MATTICE, CHARLES, W L7 C14 WALPOLE TP HAGERSVILLE, ONTARIO N0A 1H0 GENERAL FREIGHT.	036924753 Original
*LACHAPELLE, GHISLAIN 290 MAIN ST BX 702 STURGEON FALLS, ONTARIO P0H 2G0 GENERAL FREIGHT.	021151638 Original	*MAVES, TERRY, WILFRED 6 RIVER DR PEMBROKE R6, ONTARIO K8A 6W7 GENERAL FREIGHT; TANK.	081176864 Original
*LALLEMAND INC 151 SKYWAY AVE REXDALE, ONTARIO M9W 4Z5 GENERAL FREIGHT.	076658220 Original	*MAY, GRANT, W L28 C5 LONDON TP HYDE PARK R1, ONTARIO N0M 1Z0 SINGLE SOURCE; GENERAL FREIGHT.	085702012 Original
*LAMWAY SYSTEMS INC 127 MABERLEY CR SCARBOROUGH, Ontario M1C 3Y1 GENERAL FREIGHT; TANK.	085249409 Original	*P & D LIVESTOCK INC 772 BRUCE ST BOX 2170 PORT ELGIN, ONTARIO N0H 2C0 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (41000) BRUCE CO.	056689776 Original
*LAROCQUE, JAMES, A L26 C6OSGOODE TP METCALFE R3, ONTARIO K0A 2P0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (20610) OSGOODE TP.	070030901 Amend	*PETERS BROS. TRUCKING INC. 30 GOSHEN ST ZURICH, ONTARIO N0M 2T0 GENERAL FREIGHT; TANK.	102384481 Original
*LECLERC, NOEL, J L39 RGE-B ROLPH BOX 51 DEEP RIVER, ONTARIO K0J 1P0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (69619) ROLPH, BUCH'N, WYLIE, MCKAY TP.	076660203 Amend	*PHIEFFER, H, J, NEIL 92 LEMOINE ST BELLEVILLE, ONTARIO K8P 4H1 GENERAL FREIGHT; TANK.	064457117 Original



*POIRIER, MICHAEL 841 DENISE ST TIMMINS, ONTARIO P4N 7M5 GENERAL FREIGHT.	064493767 Original	*146257 CANADA INC. 611 DE MONTENACH BELOEIL QC J3G 2P3 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	102516967 Original
*PUMA TRANSPORT INC. 5945 AIRPORT RD STE348 MISSISSAUGA, ONTARIO L4V 1R9 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21102) MISSISSAUGA C.	101929868 Original	*166093 CANADA INC. 100 MONTEE DORION ST-EUSTACHE QUEBEC J7R 4K3 SINGLE SOURCE.	102605085 Original
*RAY EXPRESS COURRIER INC. 2663 RUE PITFIELD ST LAURENT QUEBEC H4S 1T2 GENERAL FREIGHT.	102098962 Original	*172741 CANADA INC. 2090-A LAPIERRE ST LASALLE QUEBEC H8N 1B2 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	102274765 Original
*ROD SOKOLOWSKI TRUCKING LTD. 93 KEARNEY DR AJAX, ONTARIO L1T 2V7 GENERAL FREIGHT; TANK.	102382162 Original	*2753-2142 QUEBEC INC. 246 ROUTE 202 HUNTINGDON QUEBEC J0S 1H0 SINGLE SOURCE; GENERAL FREIGHT.	102697461 Original
*ROSS, ROBERT, KENNETH 15 LOUISA ST W BX 465 THORNBURY, ONTARIO N0H 2P0 SINGLE SOURCE.	022235948 Original	*460496 ONTARIO INC 2667 LOWER BASE LINE MILTON R1, ONTARIO L9T 2X5 GENERAL FREIGHT.	051177689 Amend
*SODROX CHEMICALS LTD. L2 C2 GUELPH TP. GUELPH R6, ONTARIO N1H 6J3 GENERAL FREIGHT; TANK.	073945910 Original	*634934 ONTARIO LTD 275 NORTH ST NEWCASTLE, ONTARIO L0A 1H0 SINGLE SOURCE; GENERAL FREIGHT; TANK.	085456122 Original
*SONEGO, FRANK 939 NIPIGON AV THUNDER BAY, ONTARIO P7E 3E9 GENERAL FREIGHT.	018631137 Amend	*656810 ONTARIO LIMITED 134 NELSON ST OTTAWA, ONTARIO K1N 7R5 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R, (20000) OTTAWA-CARLETON R.	082687219 Amend
*TRANSPORT A.D. PLANTE INC. 675 CHEMIN BELAIR ST JEAN CHRYSOSTOME PQ G6Z 2L2 SINGLE SOURCE; GENERAL FREIGHT.	091649004 Original	*685823 ONTARIO LTD. 1764 VICTORIA STREET NORTH KITCHENER, ONTARIO N2B 3E5 GENERAL FREIGHT.	102779510 Original
*TRANSPORT CLAUDE DEMERS INC. 563 RUE MARCEL GRANBY QUEBEC J2G 3C7 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	087163357 Original	*693207 ONT INC 330 BRITANNIA RD E MISSISSAUGA, ONTARIO L4Z 1X9 SINGLE SOURCE; GENERAL FREIGHT.	084994172 Original

<b>*709740 ONTARIO INC.</b> 4078 WOODINGTON DR MISSISSAUGA, ONTARIO L4Z 1K3 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLI- TAN TORONTO R.	<b>086280263</b> <b>Original</b>	<b>ONTARIO/QUEBEC, ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:</b>  <b>A. J. BOUCHARD TRUCKING LTD</b> 090379769 912 1-ST E BX960 GERALDTON, ONTARIO P0T 1M0 GENERAL FREIGHT.  <b>BORCROSS FREIGHT SERVICES</b> <b>CORPORATION</b> 102661612 70 NORTH GATES AVE LACKAWANNA NEW YORK, USA 14218 GENERAL FREIGHT.  <b>BORCROSS FREIGHT SERVICES</b> <b>INC.</b> 102660812 24 MOBILE DRIVE TORONTO, ONTARIO M4A 1J2 GENERAL FREIGHT.  <b>D.T.L. CARRIERS INC.</b> 102422477 10065 RT60 FREDONIA NEW YORK, USA 14063 GENERAL FREIGHT; TANK.  <b>DAVIS, JOSEPH, A</b> 027812167 L19 C5 NORWICH WOODSTOCK R4, ONTARIO N4S 7V8 GENERAL FREIGHT; TANK.  <b>FLOWERS, BRIEN, K</b> 084784586 LT52 MILTON HTS CAMPGROUND MILTON, ONTARIO L9T 4Z1 GENERAL FREIGHT; TANK.  <b>GIBSON, DAVID, A, R</b> 059141000 151 VICTORIA ST E CREDITON, ONTARIO N0M 1M0 GENERAL FREIGHT.  <b>HUMPHREY EXPRESS INC.</b> 091160155 403 MARGARET AVE WALLACEBURG, ONTARIO N8A 2A8 GENERAL FREIGHT; TANK.  <b>JACK GRAY TRANSPORT INC</b> 084867970 4600 E 15TH AVE GARY INDIANA, USA 46403 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.  <b>LALLEMAND INC</b> 076658220 151 SKYWAY AVE REXDALE, ONTARIO M9W 4Z5 GENERAL FREIGHT.
<b>*715270 ONTARIO INC.</b> 10587 SODOM RD NIAGARA FALLS R3, ONTARIO L2E 6S6 GENERAL FREIGHT; TANK.	<b>102433258</b> <b>Original</b>	
<b>*788735 ONTARIO INC.</b> 343 MONARCH PARK AVE TORONTO, ONTARIO M4J 4T4 GENERAL FREIGHT.	<b>102185640</b> <b>Original</b>	
<b>*847284 ONTARIO INC.</b> 6107 GEMINI CRES MISSISSAUGA, ONTARIO L5N 6B7 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R.	<b>100784364</b> <b>Original</b>	
<b>*872476 ONTARIO LIMITED</b> 51 OTTAWAY AVE BARRIE, ONTARIO L4M 2W8 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (70101) BARRIE C, (25000) WATERLOO R.	<b>102462973</b> <b>Original</b>	
<b>*877394 ONTARIO INC.</b> 127 MABERLEY CRES SCARBOROUGH, ONTARIO M1C 3Y1 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>102321328</b> <b>Original</b>	
<b>*889622 ONTARIO INC.</b> 525 GEORGE ST PO BOX 1268 HEARST, ONTARIO P0L 1N0 GENERAL FREIGHT; TANK.	<b>102447576</b> <b>Original</b>	

**CORRIDOR APPLICATIONS:**

**NOTE:** The Motor Vehicle Transport Act, 1987, Regulations SOR 1987-1026, section 9 provides that a corridor operation is exempt from the application of subsections 8 (3) to (5) of the Act (public interest test).

The following applicants have applied for Authority to offer a transportation service through Ontario, provided there is no pickup or delivery in Ontario, utilizing the appropriate border crossings:

<b>LES ENTREPRISES DRAF INC</b> 487 CARTIER SEPT ILES QUEBEC G4R 4K5 GENERAL FREIGHT.	<b>101600393</b> Original	<b>ULCH TRANSPORT LTD</b> 97 BROCK ST. ST. MARY'S, ONTARIO N0M 2V0 GENERAL FREIGHT; TANK.	<b>045923465</b> Amend
<b>LES TRANSPORTS JEAN-GUY RIENDEAU INC.</b> 317 ST. FRANCOIS-XAVIER DELSON, QUEBEC J0L 1G0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>073456813</b> Original	<b>146257 CANADA INC.</b> 611 DE MONTENACH BELOEIL QC J3G 2P3 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>102516967</b> Original
<b>LINDEN MOTOR FREIGHT CO. INC.</b> 1300 LOWER ROAD LINDEN NEW JERSEY, USA 07036 GENERAL FREIGHT; TANK.	<b>102723692</b> Original	<b>172741 CANADA INC.</b> 2090-A LAPIERRE ST LASALLE QUEBEC H8N 1B2 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>102274765</b> Original
<b>P &amp; D LIVESTOCK INC</b> 772 BRUCE ST BOX 2170 PORT ELGIN, ONTARIO N0H 2C0 GENERAL FREIGHT; HOUSEHOLD GOODS.	<b>056689776</b> Original	<b>2753-2142 QUEBEC INC.</b> 246 ROUTE 202 HUNTINGDON QUEBEC J0S 1H0 GENERAL FREIGHT.	<b>102697461</b> Original
<b>PUMA TRANSPORT INC.</b> 5945 AIRPORT RD STE348 MISSISSAUGA, ONTARIO L4V 1R9 GENERAL FREIGHT; HOUSEHOLD GOODS.	<b>101929868</b> Original	<b>460496 ONTARIO INC</b> 2667 LOWER BASE LINE MILTON R1, ONTARIO L9T 2X5 GENERAL FREIGHT.	<b>051177689</b> Amend
<b>R. BECKER ENTERPRISES INCORPORATED</b> HWY41 W4365 PINEWOODS LOOP 12 WALLACE MI, USA 49893 GENERAL FREIGHT.	<b>102636719</b> Original	<b>693207 ONT INC</b> 330 BRITANNIA RD E MISSISSAUGA, ONTARIO L4Z 1X9 GENERAL FREIGHT.	<b>084994172</b> Original
<b>SONEGO, FRANK</b> 939 NIPIGON AV THUNDER BAY, ONTARIO P7E 3E9 GENERAL FREIGHT.	<b>018631137</b> Amend	<b>715270 ONTARIO INC.</b> 10587 SODOM RD NIAGARA FALLS R3, ONTARIO L2E 6S6 GENERAL FREIGHT; TANK.	<b>102433258</b> Original
<b>STAR TRANSPORTATION INC.</b> 1909 FOSTER AVE BX100906 NASHVILLE TN, USA 37210 GENERAL FREIGHT.	<b>102735795</b> Original	<b>847284 ONTARIO INC.</b> 6107 GEMINI CRES MISSISSAUGA, ONTARIO L5N 6B7 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>100784364</b> Original
<b>TRANSPORT A.D. PLANTE INC.</b> 675 CHEMIN BELAIR ST JEAN CHRYSOSTOME PQ G6Z 2L2 GENERAL FREIGHT.	<b>091649004</b> Original	<b>877394 ONTARIO INC.</b> 127 MABERLEY CRES SCARBOROUGH, ONTARIO M1C 3Y1 GENERAL FREIGHT; TANK.	<b>102321328</b> Original
<b>TRANSPORT CLAUDE DEMERS INC.</b> 563 RUE MARCEL GRANBY QUEBEC J2G 3C7 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS.	<b>087163357</b> Original	<b>ONTARIO/QUEBEC, ONTARIO/USA BORDER CROSSINGS:</b> <b>SOUTH EAST CARRIERS INC.</b> 1905 MAHR AVE BOX 754 LAWRENCEBURG TN, USA 38464 GENERAL FREIGHT.	<b>102522600</b> Original



**ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:****GOLDEN VALLEY TRANSPORTATION INC.****102196654**  
**Original**504 NORTH 3500 EAST  
RIGBY IDAHO, USA  
83442  
GENERAL FREIGHT.**ONTARIO/USA BORDER CROSSINGS:****BADGER TRANSPORT INC****092999801**  
**Amend**215 GRAND AVE BX 198  
EMBARRASS WI, USA  
54933  
GENERAL FREIGHT.**R & J TRANSPORT INC.****100305843**  
**Original**608'N 41ST STREET  
MANITOWOC WISCONSIN, USA  
54220  
GENERAL FREIGHT.**CAPITALS AGRI-DELIVERIES LTD.****102378960**  
**Original**L13 C8 HOWARD TWP  
RIDGETOWN R3, ONTARIO  
N0P 2C0  
GENERAL FREIGHT.**CARNOCHAN, JOHN, T****008222174**  
**Amend**L18 C10 MARIPOSA TP  
OAKWOOD R1, ONTARIO  
K0M 2M0  
GENERAL FREIGHT.**CONTINENTAL VEALERS LTD****062429798**  
**Original**49 MITCHELL ST  
AYR, ONTARIO  
N0B 1E0  
GENERAL FREIGHT.**CUTHBERT, DOUGLAS, W****004605840**  
**Original**L9 R1N EKFRID TP  
APPIN R4, ONTARIO  
N0L 1A0  
GENERAL FREIGHT.**DEERING, DOUGLAS, J****058719744**  
**Original**PLT 20 C5  
BLACKSTOCK R1, ONTARIO  
L0B 1B0  
GENERAL FREIGHT.**DEERING, RONALD, A****023970824**  
**Original**CON 5 LT12  
BLACKSTOCK R1, ONTARIO  
L0B 1B0  
GENERAL FREIGHT.**DEMERS, HERVE, J****051014330**  
**Original**170 VISCOUNT AVE  
TIMMINS, ONTARIO  
P4R 1C8  
ROAD CONSTRUCTION, restricted to 1 vehicle.**DOORNEKAMP BROTHERS TRUCKING LIMITED****062676343**  
**Amend**3712 NIGH RD BX 661  
RIDGEWAY, ONTARIO  
L0S 1N0  
GENERAL FREIGHT**DOUG'S TRANSPORT LTD****039519347**  
**Amend**22 RIDLEY BLVD  
ORILLIA, ONTARIO  
L3V 7J4  
TANK.**DUMOUCHEL TRANSPORT LTD****084596981**  
**Original**833 RUE DES ROSIERS BX34  
DUBREUILVILLE, ONTARIO  
P0S 1B0  
GENERAL FREIGHT.**ERRINGTON, KEITH, B****012599005**  
**Original**1-324 KORAH RD  
SAULT STE MARIE, ONTARIO  
P6C 4H1  
GENERAL FREIGHT.**TRUCK TRANSPORTATION ACT,  
1988  
LOI DE 1988 SUR LE  
CAMIONNAGE**

The following are applications for operating licences under the Truck Transportation Act, 1988, S.O. 1988, Chapter 64. These Applicants have been found to meet the fitness requirements pursuant to section 6 of that Act and the Registrar of Motor Vehicles proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test pursuant to subsection 7 (4) of the Act.

The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:

**AITKEN, PETER, W****027051325**  
**Original**L23 C11 ZEALAND BX478  
DRYDEN, ONTARIO  
P8N 2Z2  
GENERAL FREIGHT.**ANDREWS, PAUL, H****066741161**  
**Original**110 TOWNHAVEN PL UN-79  
SCARBOROUGH, ONTARIO  
M1K 5J6  
GENERAL FREIGHT.**BRYANT, FREDRICK, C****050599514**  
**Original**1015 BASELINE RD W  
LONDON, ONTARIO  
N6K 2C5  
GENERAL FREIGHT.

<b>EVERGREEN TRANSFER MOVING SERVICES LTD</b> 115 SELKIRK DR KITCHENER, ONTARIO N2E 1M5 HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (25102) KITCHENER C.	<b>097807086</b> Original	<b>GRIFFIN, KENNETH, J</b> SITE 19 WILLOWAY PK CAYUGA R1, ONTARIO N0A 1E0 GENERAL FREIGHT.	<b>032218542</b> Original
<b>FEKETE, WILLIAM</b> L3 C5 RR1 TOWNS TP WATERFORD, ONTARIO N0E 1Y0 GENERAL FREIGHT.	<b>047387518</b> Original	<b>GRONDIN, NORMAND</b> L10 C12 HANLAN TP BX 1045 HEARST, ONTARIO P0L 1N0 GENERAL FREIGHT.	<b>036085191</b> Amend
<b>FIRST PIONEER TRANSPORTATION LTD</b> 5360 SOUTH SERVICE RD BURLINGTON, ONTARIO L7L 5R1 TANK.	<b>073906970</b> Original	<b>GUAYS ENTREPRISE AM LTD</b> 43 PINE ST BX 10 DUBREUILVILLE, ONTARIO P0S 1B0 GENERAL FREIGHT.	<b>072124593</b> Original
<b>FROESE, JOHAN, T</b> 60 SPRUCE ST APT-3 AYLMER, ONTARIO N5H 1B3 GENERAL FREIGHT.	<b>035902831</b> Original	<b>GUILBEAULT, JOSEPH, S</b> L243/244 C4 DUNDALK R6, ONTARIO N0C 1B0 GENERAL FREIGHT.	<b>043817636</b> Original
<b>GALT, JOHN, E</b> 37 BROOKLYN RD CAMBRIDGE, ONTARIO N1R 1C4 GENERAL FREIGHT.	<b>051372004</b> Original	<b>GUSTAFSON, RONALD, A</b> 117 THEOBALDS CIRCLE RICHMOND HILL, ONTARIO L4C 9C8 GENERAL FREIGHT.	<b>024518815</b> Original
<b>GARIEPY, FRANCOIS, J</b> 1243 MAIN ST E BX 6 SI-1 VAL CARON RR2, ONTARIO P0M 3A0 GENERAL FREIGHT.	<b>001187576</b> Original	<b>HAMCO CONSTRUCTION LTD.</b> 209-50 ELM DRIVE EAST MISSISSAUGA, ONTARIO L5A 3X2 GENERAL FREIGHT.	<b>099695918</b> Original
<b>GERARD GRONDIN TRUCKING LTD</b> 31 POWELL PLACE HEARST, ONTARIO P0L 1N0 GENERAL FREIGHT.	<b>051407893</b> Original	<b>HAMILTON CONTRACTING INC</b> L20-21 CC RAMA TP SEBRIGHT R2, ONTARIO L0K 1W0 GENERAL FREIGHT.	<b>094335242</b> Original
<b>GIORGIANNI, CHARLES</b> 105 FERNDAL BX883 BARRIE, ONTARIO L4M 4Y6 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (70000) SIMCOE CO.	<b>080999778</b> Original	<b>HARRY, HAROLD</b> 80 CORDELLA ST WESTON, ONTARIO M6N 2J6 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R.	<b>051609847</b> Original
<b>GOSTLIN, ROGER, C</b> L12 C8 LAXTON BX 7 NORLAND, ONTARIO K0M 2L0 GENERAL FREIGHT.	<b>055337527</b> Original	<b>HEARD, GORDON, WAYNE</b> L24 C7 SMITH TP PETERBOROUGH R4, ONTARIO K9J 6X5 GENERAL FREIGHT.	<b>063219848</b> Amend
<b>GRANTHAM, DONALD, E</b> PT L23 C20 BLANSH TWP ST MARYS R2, ONTARIO N0M 2V0 GENERAL FREIGHT.	<b>001304054</b> Original	<b>HENDRICK, HAROLD</b> L5 C14 HAY TP DASHWOOD R1, ONTARIO N0M 1N0 GENERAL FREIGHT; TANK.	<b>020765257</b> Original

<b>HEPBURN, LESTER, J</b> 10 MEADOW BUSH CRT BRAMALEA, ONTARIO L6S 4R8 GENERAL FREIGHT.	<b>009188696</b> Original	<b>JAMES SOBOL EXCAVATING LTD</b> 230 ARGYLL STREET FERGUS, ONTARIO N1M 2Y3 GENERAL FREIGHT.	<b>072643368</b> Original
<b>HIBBITT, ROBERT, E</b> 604 GARDEN ST WHITBY, ONTARIO L1N 7B3 BULK.	<b>001479106</b> Original	<b>JAMIESON DELIVERY SERVICE INC.</b> 610 NEWBOLD ST UN 5 LONDON, ONTARIO N6E 2T6 SINGLE SOURCE; GENERAL FREIGHT.	<b>094088644</b> Original
<b>HILLIER, DALE, D</b> LOT5 CON5 ELDON TP WOODVILLE RR6, ONTARIO K0M 2T0 GENERAL FREIGHT; TANK.	<b>059407630</b> Original	<b>JOHNSTON, ROBERT, W</b> 54 JOYCE ST KINGSTON, ONTARIO K7K 6H3 GENERAL FREIGHT.	<b>013258780</b> Original
<b>HITCHIN, WILLIAM, J</b> 205 YEATES AVE BARRIE, ONTARIO L4N 4C5 GENERAL FREIGHT.	<b>013083625</b> Original	<b>K/M SERVICE EXPRESS INC</b> 349 BRAYMORE BLVD SCARBOROUGH, ONTARIO M1B 2W6 GENERAL FREIGHT.	<b>102309002</b> Original
<b>HOLLINGSWORTH, RONALD</b> L18 C4 WARWICK TP WATFORD R5, ONTARIO N0M 2S0 GENERAL FREIGHT.	<b>063296055</b> Original	<b>KAHARA CONSTRUCTION AND HOME IMPROVEMENTS LIMITED</b> 12 QUEEN STREET BOX205 HORNEPAYNE, ONTARIO P0M 1Z0 GENERAL FREIGHT.	<b>102541325</b> Original
<b>HOVAN, JOZSEF</b> 134 SLINGER AVE STONEY CREEK, ONTARIO L8G 3X4 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>059461382</b> Original	<b>KARI, STEPHEN, A</b> #16 RINTALA TRAILER PARK SITE 24 BOX 28 LIVELY R1, ONTARIO P0M 2E0 GENERAL FREIGHT.	<b>028739596</b> Original
<b>HUNTER, MURRAY</b> 27 MAIN ST APT 2 GRAND VALLEY, ONTARIO L0N 1G0 GENERAL FREIGHT.	<b>078580561</b> Original	<b>KAY MOTOR EXPRESS INC</b> 79 MEADOWVALE DR ST CATHARINES, ONTARIO L2N 3Z8 GENERAL FREIGHT.	<b>072926645</b> Amend
<b>IABONI, ADOLFO</b> 113 GARDNER PL MAPLE, ONTARIO L6A 1C3 GENERAL FREIGHT.	<b>013172136</b> Original	<b>KEECH, KEVIN, V</b> L71 C18 SMITH TP BX622 LAKEFIELD, ONTARIO K0L 2H0 GENERAL FREIGHT.	<b>069937636</b> Original
<b>IRVINE, GLENN, A</b> L7 C10 COLBORNE TWP AUBURN R3, ONTARIO N0M 1E0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (52000) HURON CO, (41611) HURON TP.	<b>013187346</b> Original	<b>LAMON MOTORS LIMITED</b> 25 GOVERNMENT RD BX 710 WAWA, ONTARIO P0S 1K0 GENERAL FREIGHT.	<b>059788944</b> Original
<b>J. GOODFELLOW HAULAGE LTD</b> L26 C9 INNIS TP STROUD, ONTARIO L0L 2M0 GENERAL FREIGHT.	<b>090476846</b> Amend	<b>LEBLANC, J, G, GILLES</b> L6 C3 BX 201 NAVAN RR9, ONTARIO K1G 3N8 GENERAL FREIGHT.	<b>072239581</b> Original



<b>LETHBRIDGE, RICHARD, R</b> 368 OLD BROCK RD GREENSVILLE, ONTARIO L9H 6A8 GENERAL FREIGHT.	<b>048299565</b> Original	<b>PICOSKI, DOUGLAS, E</b> L3 C5 ARTHUR TP KENILWORTH R2, ONTARIO N0G 2E0 GENERAL FREIGHT.	<b>018135676</b> Original
<b>LISCOMBE, GORDON, F</b> 29 KENT ST AJAX, ONTARIO L1S 1X3 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (10401) AJAX T.	<b>036742994</b> Amend	<b>PILON, FERNAND</b> 1508 LAURIER ST BOX 790 ROCKLAND, ONTARIO K0A 3A0 GENERAL FREIGHT; TANK.	<b>045169206</b> Original
<b>MCKENZIE, KENNETH, A</b> 962 HWY-18E KINGSVILLE, ONTARIO N9Y 2K9 GENERAL FREIGHT.	<b>064033289</b> Amend	<b>PINNOCK, BERRESFORD, E</b> 3600 MORNINGSTAR DR UN24 MALTON, ONTARIO L4T 1Y5 GENERAL FREIGHT.	<b>064478217</b> Original
<b>MEYER, JOSEPH, B</b> 169 MILLER ST BOX 654 MOUNT FOREST, ONTARIO N0G 2L0 GENERAL FREIGHT.	<b>084013085</b> Original	<b>PUCKRIN, RICHARD</b> L21 C3 UXB GOODWOOD R1, ONTARIO L0C 1A0 GENERAL FREIGHT.	<b>056820408</b> Amend
<b>MID-TOWN FARMS INC.</b> 4350 VICTORIA AV N BX 28 VINELAND STATION, ONTARIO L0R 2E0 GENERAL FREIGHT.	<b>101439007</b> Original	<b>R &amp; S GRAHAM CONTRACTING LTD.</b> LOT 3 CON 17 E. WMS. TWP PARKHILL R5, ONTARIO N0M 2K0 GENERAL FREIGHT.	<b>101895492</b> Original
<b>MILNE, DAVID</b> L31 C3 PICKERING TP CHERRYWOOD, ONTARIO L0H 1C0 GENERAL FREIGHT.	<b>048684511</b> Original	<b>RAYNSFORD, KENNETH, E</b> L3 OAKOENE CR BALL PNT LITTLE BRITAIN K0M 2C0 GENERAL FREIGHT.	<b>049143206</b> Original
<b>MINOTT, ROOSEVELT</b> 37 TROUTBROOKE DRIVE DOWNSVIEW, ONTARIO M3M 1S6 BULK.	<b>037106754</b> Original	<b>RENAUD, RICHARD, P</b> L16B MCKENZIE HTS THUNDER BAY R13, ONTARIO P7A 1T1 GENERAL FREIGHT.	<b>066880960</b> Original
<b>MURPHY, MICHEAL, R</b> L9 C9 SIDNEY TP STIRLING R3, ONTARIO K0K 3E0 GENERAL FREIGHT.	<b>010169151</b> Original	<b>RIVARD, J, B, JEAN</b> 393 HWY 144 R2 CHELMSFORD, ONTARIO P0M 1L0 GENERAL FREIGHT.	<b>066459456</b> Original
<b>P.W. KINNEY TRUCKING INC.</b> 117 SELKIRK AV HAMILTON, ONTARIO L8H 5L8 GENERAL FREIGHT.	<b>100286086</b> Original	<b>ROBBINS, WILLIAM</b> 2201 SIXTH AV ST CATHARINES R1, ONTARIO L2R 6P7 GENERAL FREIGHT; TANK.	<b>053071762</b> Amend
<b>PARKER, BRIAN, E</b> L16 C4 W LINC ST ANNS R2, ONTARIO L0R 1Y0 GENERAL FREIGHT.	<b>021908781</b> Original	<b>ROBERT LUCIER EXPRESS INC.</b> 50 GROVE CRES BRANTFORD, ONTARIO N3R 4Y6 GENERAL FREIGHT.	<b>093601759</b> Original
		<b>ROLLING, GORDON</b> 19321 CENTRE ST BOX 22 MOUNT ALBERT, ONTARIO L0G 1M0 GENERAL FREIGHT.	<b>026079902</b> Original

<b>ROUILLARD, DIANE, A</b> 51 OAK RD BX 1582 BLIND RIVER, ONTARIO P0R 1B0 GENERAL FREIGHT.	<b>073084540</b> Original	<b>283013 ONTARIO LTD</b> L57 E TALBOT RD LAMBETH R3, ONTARIO N0L 1S0 GENERAL FREIGHT.	<b>004449734</b> Amend
<b>SALMON, ROGER, DALE</b> L4 C7 WILLIAMSBURG TP CHESTERVILLE R1, ONTARIO K0C 1H0 GENERAL FREIGHT.	<b>014562530</b> Amend	<b>429327 ONTARIO INC</b> L2 C6 CAVAN TP FRASERVILLE R1, ONTARIO K0L 1V0 GENERAL FREIGHT; TANK.	<b>067492739</b> Original
<b>SANTOS, AMILCAR</b> 682 CLASSIC DR LONDON, ONTARIO N5W 5X6 GENERAL FREIGHT.	<b>006852822</b> Original	<b>433280 ONTARIO INC</b> 3 GEORGIAN MANOR COLLINGWOOD, ONTARIO L9Y 3Z3 GENERAL FREIGHT.	<b>069552122</b> Original
<b>SHAW, PHILIP, K</b> 1788 BROCK RD FREELTON, ONTARIO L0R 1K0 GENERAL FREIGHT.	<b>053271169</b> Original	<b>571430 ONTARIO LTD</b> L10 C9 TUCKERSMITH KIPPEN R2, ONTARIO N0M 2E0 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>102221262</b> Original
<b>SHORTALL'S SAND &amp; GRAVEL LTD.</b> L7 C3 R1 GANANOQUE, ONTARIO K7G 2V3 GENERAL FREIGHT.	<b>098670300</b> Original	<b>596883 ONTARIO LTD</b> 26 EDINBURGH DR DOWNSVIEW, ONTARIO M3H 1B4 GENERAL FREIGHT.	<b>079577173</b> Original
<b>SMELT, HERMAN, H/KOCZKUR, JOHN, M</b> 130 HURON CR THUNDER BAY, ONTARIO P7A 3K4 BULK.	<b>094228184</b> Original	<b>675760 ONTARIO LTD</b> 2631 FRONT RD LA SALLE, ONTARIO N9J 2N2 GENERAL FREIGHT.	<b>086267683</b> Original
<b>SPENCER, LURREN</b> 6100 MONTEVIDEO RD UN34 MISSISSAUGA, ONTARIO L5N 2N8 HOUSEHOLD GOODS, (21102) MISSISSAUGA C.	<b>094016519</b> Amend	<b>676661 ONTARIO LTD</b> 66 AYLMER CRES STONEY CREEK, ONTARIO L8J 1K3 GENERAL FREIGHT.	<b>098052595</b> Original
<b>STOREY, CLIFFORD, W</b> 70 ROSER CR BOWMANVILLE, ONTARIO L1C 3N9 GENERAL FREIGHT.	<b>065043072</b> Amend	<b>881420 ONTARIO LIMITED</b> 15 MCDONALD STREET INGLEWOOD, ONTARIO L0N 1K0 GENERAL FREIGHT; TANK.	<b>102581323</b> Original
<b>WM. FINKLE MACHINE LIMITED</b> 393 SIDNEY ST BELLEVILLE, ONTARIO K8N 3Z9 GENERAL FREIGHT.	<b>030717010</b> Original	The following applicants have applied for Authority to offer a transportation service as detailed below between specific geographic areas:	
<b>YACH, MERVIN</b> L10 C8 ROSS TP FORESTERS FALLS R1, ONTARIO K0J 1V0 BULK.	<b>053918720</b> Original	<b>GADSON, HERMAN</b> PT L18 C13 INNIS BARRIE R4, ONTARIO L4M 4S6 ROAD CONSTRUCTION, restricted to 1 vehicle, (80000) ALGOMA D, (33401) BRACEBRIDGE T, (41000) BRUCE CO, (81000) COCHRANE D, (81401) COCHRANE T, (43000) DUFFERIN CO, (44000) ELGIN CO, (80404) ELLIOT LAKE T, (88405) ESPANOLA T, (45000) ESSEX CO, (33402) GRAVENHURST T, (47000) GREY CO, (90404) HAILEYBURY T, (12000) HALDI- MAND-NORFOLK R, (49000) HALIBURTON	<b>032053767</b> Original

CO, (81402) HEARST T, (33403) HUNTSVILLE T, (52000) HURON CO, (81403) IROQUOIS FALLS T, (81404) KAPUSKASING T, (53000) KENT CO, (90405) KIRKLAND LAKE T, (54000) LAMBTON CO, (83000) MANITOULIN D, (59000) MIDDLESEX CO, (33000) MUSKOKA D, (90407) NEW LISKEARD T, (23402) NICKEL CENTRE T, (85000) NIPISSING D, (85101) NORTH BAY C, (23403) ONAPING FALLS T, (37000) OXFORD CO, (86000) PARRY SOUND D, (86402) PARRY SOUND T, (65000) PERTH CO, (23404) RAYSIDE-BALFOUR T, (80101) SAULT STE. MARIE C, (70000) SIMCOE CO, (85404) STURGEON FALLS T, (23101) SUDBURY C, (88000) SUDBURY D, (23000) SUDBURY R, (90000) TIMISKAMING D, (81101) TIMMINS C, (23405) VALLEY EAST T, (23406) WALDEN T, (25000) WATERLOO R, (75000) WELLINGTON CO.

The following applicants have applied for Authority to offer a transportation service as detailed below to or from specific geographic areas:

**JOHNSTON, WILLIAM, K** **001676962**  
 369 MCNAB ST **Original**  
 RENFREW, ONTARIO  
 K7V 2Y9  
 GENERAL FREIGHT, (85000) NIPISSING D, (85101) NORTH BAY C, (69000) RENFREW CO, (85404) STURGEON FALLS T.

Michael T. Curtin,  
 Manager.

#### REWRITE APPLICATION:

Notice is hereby given that a rewritten certificate of public necessity and convenience has been issued under the Public Commercial Vehicles Act, R.S.O. 1980, Chapter 407, Section 10b and the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35, in respect of the following licence and operating licence:

Andre G. Viau Trucking Ltd., FS 741 X 487

Persons who are not parties to this application may, within sixty days of the date of this notice, file written submissions with the Ontario Highway Transport Board with respect to the rewritten certificate.

#### PUBLIC NOTICE

##### THE MOTOR VEHICLE TRANSPORT ACT, 1987, PART II TRUCK APPLICATION

The application listed herein has applied for a licence under Parts II and III of the Motor Vehicle Transport Act, 1987. The application was published in the Ontario Gazette of June 23, 1990.

Notices of Objection and written evidence were filed on this application within the time prescribed, by interested persons. The Ontario Highway Transport Board has considered the evidence filed and is satisfied that in the absence of evidence to the contrary the operation of the truck undertaking in

respect of which the licences are sought would likely be detrimental to the public interest.

Accordingly, the Board has directed that public hearings be held at the Board's Chambers, Britannica House, 151 Bloor Street West, 10th Floor, Toronto, Ontario as indicated hereunder:

For further information with respect to these hearings, members of the public are advised to contact the Secretary of the Board.

#### DATE OF HEARING

October 1, 1990

**883073 Ontario Limited**

**101628200**

### PUBLIC VEHICLES ACT

#### BUS APPLICATION:

The following applications for an operating licence under the Public Vehicles Act R.S.O. 1980, Chapter 425 is published pursuant to Section 8, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board Act, R.S.O. 1980, Chapter 338. Section 8 provides that the Board may dispose of this application summarily if no objection is served and filed in the prescribed manner within twenty-nine days of this publication.

#### PUBLIC VEHICLES ACT APPLICATION:

**Elphius Cornelius, Jr.**  
 R.R. No. 2  
 Box 220  
 Southwold, Ontario  
 N0L 2G0

**44366**

applies for a public vehicle (school bus) operating licence, as follows:

"For the transportation of pupils for the Oneida Nation of the Thames Council between points in the County of Middlesex and the City of London and schools under the jurisdiction of the aforementioned Council.

PROVIDED that charter privileges be restricted to school purposes and only for schools under the jurisdiction of the aforesaid Council."

**Pen-Ayr Coach Lines Ltd.**  
 R.R. No. 4  
 Cambridge, Ontario  
 N1R 5S5

**24052-E**

applies for a public vehicle operating licence, as follows:

"For the transportation of persons for and on behalf of 896820 Ontario Limited c/o/b as Penmans, said persons being in the employ of 896820 Ontario Limited c/o/b as Penmans, on a scheduled service, from the City of Woodstock to the installation of 896820 Ontario Limited c/o/b as Penmans in the City of Cambridge and return on the same day.



PROVIDED that there be no pick-up or discharge of passengers except at the City of Woodstock or the City of Cambridge.

PROVIDED FURTHER that any operating licence shall be restricted to the operation of Class "D" vehicles.

PROVIDED FURTHER that there be no charter trips authorized pursuant to any operating licence issued hereunder."

#### TARIFF OF TOLLS:

\$220.00 per day for 44 passenger vehicle.  
 .46¢ per kilometre for 14 passenger vehicle.

**Robert Alphonse Richer**  
 (o/a Data Shuttle Services)  
 586 Shirley Street  
 Box 2031  
 Chelmsford, Ontario  
 P0M 1L0

**44340**

applies for a public vehicle operating licence, as follows:

"For the transportation of passengers who are employees of Revenue Canada between the Town of Rayside Balfour and the City of Sudbury.

PROVIDED that chartered trips be prohibited.

#### TARIFF OF TOLLS:

\$1.75 One Way from Azilda  
 \$17.00 Weekley Pass return  
 \$2.00 One Way from Chelmsford  
 \$19.50 Weekley Pass return

**Transcor Inc.**  
 24 Cardico Drive  
 Gormley, Ontario  
 L0H 1G0

**33580-N**

applies for the transfer of public vehicle (school bus) operating licence PVS-850 from Trentway-Wagar Inc., 680 The Queensway, Peterborough, Ontario K9J 7H2

**33580-O**

also applies for the transfer of public vehicle (school bus) operating licence PVS-5148 from Trentway-Wagar Inc., 680 The Queensway Inc. Peterborough, Ontario K9J 7H2.

**895730 Ontario Ltd.**  
 R.R. No. 4  
 Bright, Ontario  
 N0J 1B0

**44371**

applies for the transfer of public vehicle (school bus) operating licence PVS-7237 from 300713 Ontario Incorporated, 194 Queen Street, Innerkip, Ontario N0J 1M0

**44371-A**

also applies for the transfer of public vehicle operating licence PV-3055 from 300713 Ontario Incorporated, 194 Queen Street, Innerkip, Ontario N0J 1M0.

#### DEMANDES DE MODIFICATION :

Avis est donné par la présente que d'un certificat d'utilité publique ont été modifié et délivrés en vertu de la Loi sur les véhicules utilitaires autorisés, L.R.O. de 1980, chapitre 407, article 10b et de la Loi de 1987 sur les transports routiers, L.C. de 1987, chapitre 35, en ce que concerne cette licence et permis d'exploitation suivant :

Andre G. Viau Trucking Ltd., F 741 X 487

Les personnes qui ne sont pas membres de ces parties peuvent présenter leurs observations écrites relatives à la modification des certificats à la Commission des transports routiers de l'Ontario dans les soixante jours suivant la date de publication du présent avis.

#### AVIS PUBLIC

#### DEMANDE D'EXPLOITATION D'UNE ENTREPRISE DE CAMIONNAGE PRÉSENTÉE EN VERTU DE LA PARTIE III DE LA LOI DE 1987 SUR LES TRANSPORTS ROUTIERS

Le requérant mentionné ci-après a présenté une demande de licence en vertu de la partie III de la Loi de 1987 sur les transport routiers. La demande a été publiée dans la Gazette de l'Ontario du 23 juin, 1990.

L'avis d'objection et la preuve écrite ont été joints à cette demande et déposés par les intéressés dans les délais prescrits. La Commission des transports routiers de l'Ontario a pris en considération la preuve déposée et estime que, faute de preuve contraire, l'exploitation de l'entreprise de camionnage faisant l'objet d'une demande de licence serait sans doute préjudiciable à l'intérêt public.

Par conséquent, la Commission a décidé qu'une audience publique aurait lieu dans la salle de tribunal de la Commission, Britannica House, 151, rue Bloor ouest, 10e étage, Toronto, Ontario, tel qu'indiqué ci-après.

Pour de plus amples renseignements sur cette audience, s'adresser au secrétaire de la Commission.

#### DATE DE L'AUDIENCE

le 1 octobre 1990

**883073 Ontario Limited**

**101628200**

#### LOI SUR LES VEHICULE DE TRANSPORT EN COMMUN

#### DEMANDE D'EXPLOITATION D'UN AUTOBUS :

Le demande suivantes de permis d'exploitation ont été présentées en vertu de la Loi sur le véhicule de transport en commun, L.R.O. de 1980, chapitre 425 et est publiées en vertu de l'article 8, L.R.O. de 1980, règlement 716 pris en application de la Loi sur la Commission des transports routiers de l'Ontario, L.R.O. de 1980, chapitre 338. L'article 8 stipule que la Commission peut traiter ce

demande sans autre forme de proces si aucune objection n'est soulevée et déposée de la manière prescrite dans les vingt-neuf jours suivant la présente publication.

**Elphius Cornelius, Jr.**

**44366**

R.R. No. 2  
Box 220  
Southwold, Ontario  
N0L 2G0

présente une demande de permis d'exploitation d'un véhicule de transport en commun (autobus scolaire) aux fins suivantes :

"Pour le transport d'élèves pour the Oneida Nation of the Thames Council et pour les écoles relevant de la juridiction de Council ce dessous entre divers lieux situés dans the County of Middlesex and the City of London.

Sous réserve que les privilèges de nolisement se limitent aux fins scolaires et ne s'appliquent qu'aux écoles relevant de la juridiction desdits Council."

**Pen-Ayr Coach Lines Ltd.**

**24052-E**

R.R. No. 4  
Cambridge, Ontario  
N1R 5S5

présent une demande de permis d'exploitation d'un véhicule de transport en commun aux fins suivantes :

"Pour le transport de personnes qui est dans l'emploi de 896820 (faisant affaire sous le nom penmans) sur un service réguliers à partir de la cité de Woodstock à l'installation de 896820 (faisant affaire sous le nom penmans) dans le cité de Cambridge et retour sur le même jour.

Sous réserve que les privilège d'embarquer ou débarquer de passagers se limitent aux les cités de Woodstock et Cambridge.

Et sous réserve que n'importe quel licence d'exploitation, ne soit autorisé qu'à utiliser des véhicule de transport en commun de catégorie "D" tels que définis à l'alinéa a) iv) du paragraph 1, article 9 due réglemant 888 pris en application de la loi sur les véhicules de transport en commun, L.R.O. de 1980, chapitre 425.

Sous réserve que tout permis d'exploitation délivré en vertu du présent certificat les voyages nolisés soient interoits."

**TARIFS :**

220.00 \$ Par jour 44 passagers véhicule  
.46 \$ Par kilometre 14 passagers véhicule

**Robert Alphonse Richer**  
(o/a Data Shuttle Services)  
586 Shirley Street  
Box 2031  
Chelmsford, Ontario  
P0M 1L0

**44340**

présent une demande de permis d'exploitation d'un véhicule de transport en commun aux fins suivantes:

"Pour le transport de passagers travaillant pour Revenue Canada entre la ville de Raysie Balfour et la Cité de Sudbury.

Sous réserve que les voyages nolisé soient interdits."

**TARIFS :**

1.75 \$ un sens a partir de Azilda  
17.00 \$ permission retour de la semaine  
2.00 \$ un sens a partir de Chelmsford  
19.50 \$ permission retour de la semaine

**Transcor Inc.**

**33580-N**

24 Cardico Drive  
Gormley, Ontario  
L0H 1G0

présent une demande de transport de permis d'exploitation de véhicule de transport en commun (autobus scolaire) PVS-850 actuellement délivré a Trentway-Wagar Inc., 680 The Queensway, Peterborough, Ontario K9J 7H2.

**33580-O**

aussi présent une demande de transport du permis d'exploitation de véhicule de transport en commun (autobus scolaire) PVS-5148 actueuement délivré a Trentway-Wagar Inc., 680 The Queensway, Peterborough, Ontario K9J 7H2.

**895730 Ontario Ltd.**

**44371**

R.R. No. 4  
Bright, Ontario  
N0J 1B0

présent une demande de transport du permis d'exploitation de véhicule de transport de commun (autobus) PVS-7237 actuellement délivré a 300713 Ontario Incorporated, 194 Queen Street, Innerkip, Ontario N0J 1M0.

**44371-A**

aussi présent une demande de transport de permis d'exploitation de véhicule de transport de commun PV-3055 actuellement délivré a 300713 Ontario Incorporated, 194 Queen Street, Innerkip, Ontario N0J 1M0.

Felix D'Mello,  
Secretary of the Board.

# Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

## Certificates of Incorporation/Certificats de constitution

NOTICE IS HEREBY GIVEN that a certificate of incorporation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
ABS PLUS LTD .....	895563	July 24, 1990	Gloucester
ACADIAN TIMBER EXPORT CANADA INC. ....	894770	July 24, 1990	Oshawa
ACCTAX GROUP INC. ....	904977	July 23, 1990	Scarborough
ADISUM (CANADA) LIMITED .....	904911	July 23, 1990	Willowdale
ADISUM (DON VALLEY) LIMITED .....	904915	July 23, 1990	Willowdale
ADOLFO MALIZIA ASSOCIATES INC. ....	904927	July 23, 1990	Downsview
ANCASTER BANQUET CENTRE LIMITED .	905705	July 25, 1990	Burlington
ANCASTER COUNTRY LANES LIMITED ....	905708	July 25, 1990	Burlington
ANDREAS JAN2 CONSULTING LTD .....	904959	July 23, 1990	Mississauga
ARAKELIAN ARTIST JEWELLERS LTD. ....	893181	July 20, 1990	Windsor
ARBA FOOD MACHINERY INC. ....	905770	July 25, 1990	Downsview
ART DEC IMPORTING CORP .....	904935	July 23, 1990	Toronto
B.F. CONTRACTING LTD. ....	900039	July 24, 1990	Waterdown
BAMBERG CREEK GAME FARM LIMITED .....	900923	July 24, 1990	Baden
BILL'S MACHINE & WELDING CO. LTD. ...	900906	July 20, 1990	Breslau
BLOOR VILLAGE DESIGN & WEAR INC. ..	905802	July 25, 1990	Toronto
BOCCACCIO PRODUCTION INC. ....	904909	July 23, 1990	Toronto
BROS. FINE DINING LTD. ....	900919	July 24, 1990	Waterloo
BROWNSON GROUP INC. ....	905744	July 25, 1990	North York
BRY-LIN LTD. ....	900206	July 24, 1990	Walford
BUILDING SERVICES INC. ....	905717	July 25, 1990	Scarborough
C.P. EMERGENCY DRAIN REPAIRS LTD. ...	905772	July 25, 1990	Woodbridge
CAFE CAPPUCCI INC. ....	905771	July 25, 1990	Woodbridge
CALA CORP. ....	895645	June 22, 1990	Toronto
CALL MASONRY INC. ....	893184	July 20, 1990	Windsor
CALTEX PETROLEUM INC. ....	895543	July 20, 1990	Nepean
CAMGORNIK EQUITIES LTD. ....	905939	July 27, 1990	Toronto
CAMPPRINT ENTERPRISES INC. ....	900913	July 20, 1990	Bolton
CANADIAN HOME & RENOVATION TEAM (GREY-BRUCE) INC. ....	900905	July 20, 1990	Kitchener
CANESE SOI LTD. ....	904976	July 23, 1990	Scarborough
CARTWRIGHT CLEANERS (COMMERCIAL) LTD. ....	905695	July 25, 1990	Weston
CHINESE OVERSEAS SERVICES & INVESTMENT CORP. ....	905748	July 25, 1990	Toronto
CIPBA HOLDINGS INC. ....	905704	July 25, 1990	Mississauga
COMMUNITY PSYCHIATRIC CENTRES LIMITED .....	905821	July 25, 1990	Toronto
COMP-ACC SOLUTIONS INC. ....	905732	July 25, 1990	Hamilton
COMPUSHINE INC. ....	904960	July 23, 1990	Brampton
COUCH & HARE INSURANCE BROKERS LTD. ....	895544	July 20, 1990	Smiths Fall
CRITICAL CONTROL SANITATION INC. ....	905737	July 25, 1990	Burlington
CUMBERLAND MOTOR SALES LTD. ....	895558	July 24, 1990	Cumberland
CYRVILLE CONSTRUCTION AND EQUIPMENT LIMITED .....	895536	July 20, 1990	Orleans
D. NOWELL HOLDINGS LTD .....	895564	July 24, 1990	Embrun
DA-MA SPORT WORLD INC. ....	904916	July 23, 1990	Oakville
DAGENAIS ADVISORY SERVICES INC. ....	905781	July 25, 1990	Toronto
DAMEL INC. ....	905761	July 25, 1990	Mississauga
DANICA HOLDINGS LTD .....	905753	July 25, 1990	Unionville
DELANEY WALTER MANAGEMENT INC. .	905793	July 25, 1990	Toronto



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
DESIGN MADNESS LIMITED .....	905694	July 25, 1990	Toronto
DEVCAN CORPORATION .....	895541	July 20, 1990	Nepean
DH ENTERPRISES INC. ....	905795	July 25, 1990	Brampton
DISCOUNT MOVING & CARTAGE INC. ....	895745	July 20, 1990	London
DOULTON RENOVATIONS INC. ....	895746	July 20, 1990	London
DRUMAC INTERNATIONAL LTD. ....	905723	July 25, 1990	Oakville
DURABLE RAILINGS INC. ....	905728	July 25, 1990	Toronto
DWIGHT WILSON ENTERPRISES INC. ....	905809	July 25, 1990	Mississauga
E. J. W. KRISSELLE PUBLISHING INC. ....	893182	July 20, 1990	Windsor
EAGLE STAR MASONRY INC. ....	895534	July 20, 1990	Toronto
EDAVHO INC. ....	904943	July 23, 1990	Willowdale
ENTRENOMICS INC. ....	904925	July 23, 1990	Mississauga
ENVIRO-AGE SYSTEMS INC. ....	900040	July 24, 1990	Hamilton
EXIDOR (U.S.A.) INC. ....	904970	July 23, 1990	Parry Sound
EXIDOR HOLDINGS INTERNATIONAL INC. ....	904961	July 23, 1990	Parry Sound
FIRST C SHARES INC. ....	905755	July 25, 1990	Toronto
FIRST KING INVESTMENTS LTD. ....	904944	July 23, 1990	Mississauga
FIRST T SHARES INC. ....	905756	July 25, 1990	Toronto
FISHER-PRICE LIMITED .....	905696	July 25, 1990	Mississauga
FOUR-OF-US HOSPITALITY SERVICES INC. ....	905767	July 25, 1990	Scarborough
FUJITO FOOD LTD. ....	904901	July 23, 1990	Toronto
G. POP CONSTRUCTION LTD. ....	900909	July 20, 1990	Kitchener
GAS GAL ENTERPRISES INC. ....	905778	July 25, 1990	Brampton
GENE'S CATERING WITH ELEGANCE INC. ....	905698	July 25, 1990	Richmond Hill
GENTIL SALES INC. ....	894769	July 24, 1990	Lindsay
GOODMAKERS AUTO SALES LTD. ....	885193	July 24, 1990	Port Hope
GOODMON ASSISTANTS INC. ....	900041	July 24, 1990	Milton
GORI ENTERPRISES INC. ....	905791	July 25, 1990	Mississauga
GREENBARR CORPORATION .....	905740	July 25, 1990	Toronto
GURU JAN ENTERPRISES LTD. ....	903406	July 23, 1990	Malton
HAELAN HOSPITAL SUPPLY CO. LTD. ....	904966	July 23, 1990	Markham
HANMER & VALLEY AFTER HOURS CLINIC INC. ....	905715	July 25, 1990	Toronto
HELIOS GRAPHIC DESIGN INC. ....	904969	July 23, 1990	Don Mills
HERISS ORIENTAL RUGS COMPANY LIMITED .....	904910	July 23, 1990	Richmond Hill
HI-BIAS RECORDS INC. ....	900922	July 24, 1990	Toronto
HQM TRADING INC. ....	905773	July 25, 1990	Scarborough
I.J. BRAZEAU & SONS CONTRACTING LTD. ....	895559	July 24, 1990	Ottawa
ILLUSTRATE PROPERTY MANAGEMENT INC. ....	904939	July 23, 1990	Toronto
IMPRESA MASONRY INC. ....	905697	July 25, 1990	Woodbridge
INVESTSMART CORPORATION .....	905711	July 25, 1990	Toronto
J.P. SERVICE STATION INC. ....	895535	July 20, 1990	Casselman
JAJ CORPORATION .....	905738	July 25, 1990	Scarborough
JAVERON HOLDINGS LIMITED .....	900910	July 20, 1990	Guelph
JESSEN HOLDINGS LTD .....	905754	July 25, 1990	Weston
KIEV GLASNOST FILMS INC. ....	904922	July 23, 1990	Islington
KINGSVILLE BINGO LTD. ....	893177	July 20, 1990	Windsor
KS CENTOCO LEATHER WRAP LTD. ....	893180	July 20, 1990	Windsor
LAKESWOOD INTERLOCK INC. ....	893185	July 24, 1990	Amherstburg
LAUREDEN INC. ....	905733	July 25, 1990	Downsview
LENWAS INC. ....	905789	July 25, 1990	Mississauga
M.S.S. OF CANADA LIMITED .....	905742	July 25, 1990	Brampton
MAINSTAY COMMUNICATIONS INC. ....	905701	July 25, 1990	Richmond Hill
MANOR HOUSE LODGING HOME INC. ....	893186	July 24, 1990	Windsor
MARIO ELECTRIC CO. (1990) LTD. ....	893169	July 16, 1990	Windsor
MARPOL INTERNATIONAL LTD. ....	905825	July 25, 1990	Willowdale

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
MARTAN FINANCIAL SERVICES LTD. ....	904948	July 23, 1990	North York
MASTERTECH MANUFACTURING INC. ....	904947	July 23, 1990	Concord
METEOR SHOW PRODUCTIONS LIMITED ..	904963	July 23, 1990	North York
MIKCON CONSTRUCTION LIMITED .....	904913	July 23, 1990	Georgetown
MILBYRNE MANAGEMENT CORPORATION .....	904958	July 23, 1990	Toronto
MIRAMAR INC. ....	905718	July 25, 1990	Fenwick
MISSISSAUGA LINEN PRODUCTS INC. ....	905822	July 25, 1990	Mississauga
N. & N. CAR-CARE LIMITED .....	905808	July 25, 1990	Bramalea
N.I.S. SYSTEMS INC. ....	900207	July 24, 1990	Azilda
NORCOMEX INTERNATIONAL LTD. ....	904979	July 23, 1990	Concord
NORTHERN SIGNALS INC. ....	904918	July 23, 1990	Toronto
OCTAFAM DEVELOPMENT INC. ....	904921	July 23, 1990	Woodbridge
OLD VILLAGE CHARM INCORPORATED ..	895557	July 24, 1990	Osgoode
ONTARIO REAL ESTATE EXCHANGE LTD. ....	905726	July 25, 1990	Toronto
OPTRONIC MEASUREMENT CORPORATION INC. ....	895532	July 20, 1990	Ottawa
OSHELL'S FOODMARKET INC. ....	905731	July 25, 1990	Powassan
P.T.Y. CHATHAM INC. ....	905784	July 25, 1990	North York
P.T.Y. SARNIA INC. ....	905783	July 25, 1990	North York
P.T.Y. ST. THOMAS INC. ....	905782	July 25, 1990	North York
PASSMORE & COMPANY INC. ....	904907	July 23, 1990	Toronto
PASSMORE CAPITAL INC. ....	904906	July 23, 1990	Toronto
PHOTOPHONICS INC. ....	905729	July 25, 1990	Toronto
PINEBUSH CAPITAL STRUCTURES CORP. ....	905820	July 25, 1990	Cambridge
PLATEAU INCORPORATED .....	904946	July 23, 1990	Toronto
POLYPLAS HOLDINGS INC. ....	905777	July 25, 1990	Brampton
PRIME BRANDS LIMITED .....	904968	July 23, 1990	Toronto
PRO-AM MODULAR EQUIPMENT LIMITED ..	904904	July 23, 1990	Bolton
PRONTARIO INVESTMENTS LIMITED .....	905741	July 25, 1990	Toronto
Q'PIT INC. ....	883561	July 20, 1990	Kingston
R.D.A. RECREATIONAL DEVELOPMENT ASSOCIATES INC. ....	904929	July 23, 1990	Woodbridge
RADIATEURS ROCKLAND RADIATORS INC. ....	895565	July 24, 1990	Rockland
RALPH M. PETERS HOLDINGS INC. ....	904965	July 23, 1990	Islington
RENNIE'S BISTRO MED INC. ....	904903	July 23, 1990	Toronto
RHAPSODY RECORDS LTD. ....	905779	July 25, 1990	Scarborough
RIVERFIELD CONSTRUCTION SERVICES LTD. ....	905714	July 25, 1990	North York
ROBERT DESANTIS MANAGEMENT INC. ..	905713	July 25, 1990	North York
ROCA ENGINEERING LTD. ....	895538	July 20, 1990	Nepean
ROMAN'S RENOVATIONS & CONTRACTING LTD. ....	895744	July 20, 1990	London
ROYAL PLUMBING LTD. ....	904954	July 23, 1990	Belleville
SDLMGP NO.1 MANAGEMENT LIMITED ...	883562	July 20, 1990	Picton
SHOP-N-SAVE INC. ....	905800	July 25, 1990	North York
SILVERSTONE CONFERENCE DESIGNERS LTD. ....	905768	July 25, 1990	Arnprior
SKETCHLEY CLEANERS FRANCHISE #977 ..	905801	July 25, 1990	Mississauga
SNALLOV ENTERPRISES LTD. ....	895561	July 24, 1990	Ottawa
SODBUSTERS INC. ....	905796	July 25, 1990	Brampton
SPINART HOLDINGS LTD. ....	904924	July 23, 1990	Rexdale
SPORT FIX LIMITED .....	905750	July 25, 1990	Brampton
STA-DRY SYSTEMS INC. ....	905797	July 25, 1990	Mississauga
STAN CAMPBELL CONSTRUCTION LTD. ...	904952	July 23, 1990	Parry Sound
STEVE FINK CONSTRUCTION INC. ....	900907	July 20, 1990	Mitchell
STICKERS BROADCASTING INC. ....	905757	July 25, 1990	Toronto
STRINGER VERONI KETCHUM ADVERTISING INC. ....	905734	July 25, 1990	Toronto

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
SUTTON GROUP GRAYSTONE REALTY INC. ....	900912	July 20, 1990	Guelph
SYNC ENTERPRISES INC. ....	905760	July 25, 1990	Willowdale
T. & R. TRANSFER COMPANY INC. ....	904919	July 23, 1990	Toronto
T.N. GARDENS LTD. ....	905693	July 25, 1990	Woodbridge
TETRIS PRODUCTIONS INC. ....	905719	July 25, 1990	Toronto
THE EMBROIDERY CONNECTION INC. ....	904933	July 23, 1990	Willowdale
THE MILAN DESIGN GROUP INC. ....	904941	July 23, 1990	North York
THE PARTNERS SQUASH CLUB INC. ....	905788	July 25, 1990	Scarborough
THE STARVING COMMUTER CORP. ....	894947	July 24, 1990	Barrie
THE SURPLUS EXCHANGE INC. ....	905759	July 25, 1990	Toronto
THE TASTY TRIANGLE INCORPORATED .	905758	July 25, 1990	West Hill
THOROGOOD INC. ....	900038	July 24, 1990	Waterdown
TIMBERMILL HOMES LTD. ....	905811	July 25, 1990	Thornhill
TORONTO REAL ESTATE EXCHANGE LTD. ....	905725	July 25, 1990	Toronto
TOURTIPTIS LTD. ....	895560	July 24, 1990	Cumberland
TRILLIUM CONTRACTING INC. ....	893179	July 20, 1990	Windsor
TRIPLE EMM HOLDINGS INC. ....	905813	July 25, 1990	Mississauga
TURNKEY FORM-ALL LTD. ....	895750	July 24, 1990	Bayfield
UNIPULSE INTERNATIONAL INC. ....	904912	July 23, 1990	Richmond Hill
UTILITY METERING SERVICES INC. ....	904930	July 23, 1990	Weston
VINELO HOLDINGS INC. ....	904951	July 23, 1990	Agincourt
W.C. SOMERS HOLDINGS LTD. ....	895562	July 24, 1990	Gloucester
WAGNER MANAGEMENT SERVICES INC. .	905780	July 25, 1990	Toronto
WAI TAT CO. LTD. ....	904920	July 23, 1990	Scarborough
WEB REPAIR LTD. ....	905739	July 25, 1990	Brampton
WEEDENDERS CORPORATION LIMITED ..	904971	July 23, 1990	Cookstown
WEIG HOLDINGS INC. ....	904949	July 23, 1990	Downsview
WELLSWORTH EXPORTS LIMITED ....	905826	July 25, 1990	Mississauga
WESTMIN INVESTMENTS LTD. ....	904905	July 23, 1990	Toronto
WILBER PRODUCTS LIMITED ....	900908	July 20, 1990	Waterloo
WOOD-MOOD HARDWOOD FLOORING LTD. ....	904932	July 23, 1990	Richmond Hill
WOODLOT CONSTRUCTION LIMITED ....	895751	July 24, 1990	Alvinston
WSL CONSULTANT SERVICES LTD. ....	894767	July 20, 1990	Pickering
ZAKOR ELECTRONICS LIMITED ....	900033	July 20, 1990	Dundas
307 FINANCIAL CORP. ....	905774	July 25, 1990	Toronto
876733 ONTARIO LIMITED ....	876733	July 20, 1990	Sarnia
876735 ONTARIO LIMITED ....	876735	July 24, 1990	Sarnia
882284 ONTARIO INC. ....	882284	July 24, 1990	Sault Ste Marie
883563 ONTARIO INC. ....	883563	July 20, 1990	Haliburton
893173 ONTARIO LIMITED ....	893173	July 20, 1990	Lasalle
893174 ONTARIO LIMITED ....	893174	July 20, 1990	Harrow
893175 ONTARIO LIMITED ....	893175	July 20, 1990	Essex
893176 ONTARIO LTD. ....	893176	July 20, 1990	Windsor
893178 ONTARIO LTD. ....	893178	July 20, 1990	Amherstburg
893183 ONTARIO LTD. ....	893183	July 20, 1990	Windsor
894948 ONTARIO LIMITED ....	894948	July 24, 1990	Newmarket
895049 ONTARIO LTD. ....	895049	July 24, 1990	Port Colborne
895050 ONTARIO LIMITED ....	895050	July 24, 1990	Welland
895051 ONTARIO INC. ....	895051	July 24, 1990	Welland
895052 ONTARIO LIMITED ....	895052	July 24, 1990	St Catharines
895533 ONTARIO LTD. ....	895533	July 20, 1990	Vanier
895537 ONTARIO INC. ....	895537	July 20, 1990	Orleans
895539 ONTARIO INC. ....	895539	July 20, 1990	Ottawa
895540 ONTARIO INC. ....	895540	July 20, 1990	Ottawa
895542 ONTARIO LTD. ....	895542	July 20, 1990	Carleton Place
895545 ONTARIO INC. ....	895545	July 20, 1990	Hawkesbury
895546 ONTARIO INC. ....	895546	July 20, 1990	Stittsville
895547 ONTARIO LTD. ....	895547	July 20, 1990	Ottawa
895548 ONTARIO LTD. ....	895548	July 20, 1990	Ottawa



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
895549 ONTARIO LTD. ....	895549	July 20, 1990	Ottawa
895752 ONTARIO INC. ....	895752	July 24, 1990	London
895753 ONTARIO INC. ....	895753	July 24, 1990	London
895754 ONTARIO LIMITED ....	895754	July 24, 1990	London
900032 ONTARIO INC. ....	900032	July 20, 1990	Burlington
900034 ONTARIO INC. ....	900034	July 20, 1990	Hamilton
900037 ONTARIO INC. ....	900037	July 24, 1990	Stoney Creek
900204 ONTARIO LIMITED ....	900204	July 20, 1990	Sudbury
900208 ONTARIO INC. ....	900208	July 24, 1990	North Bay
900904 ONTARIO LTD. ....	900904	July 20, 1990	Kitchener
900911 ONTARIO INC. ....	900911	July 20, 1990	Guelph
900918 ONTARIO INC. ....	900918	July 24, 1990	Waterloo
900920 ONTARIO INC. ....	900920	July 24, 1990	Kitchener
900921 ONTARIO LIMITED ....	900921	July 24, 1990	Kitchener
904895 ONTARIO INC. ....	904895	July 23, 1990	Toronto
904902 ONTARIO INC. ....	904902	July 23, 1990	Scarborough
904908 ONTARIO INC. ....	904908	July 23, 1990	Brampton
904914 ONTARIO LIMITED ....	904914	July 23, 1990	Toronto
904917 ONTARIO LIMITED ....	904917	July 23, 1990	Markham
904923 ONTARIO LTD. ....	904923	July 23, 1990	Mississauga
904926 ONTARIO LIMITED ....	904926	July 23, 1990	Thornhill
904928 ONTARIO LIMITED ....	904928	July 23, 1990	Brampton
904931 ONTARIO CORP. ....	904931	July 23, 1990	Toronto
904934 ONTARIO LTD. ....	904934	July 23, 1990	London
904936 ONTARIO LTD. ....	904936	July 23, 1990	St Catharines
904937 ONTARIO LIMITED ....	904937	July 23, 1990	Pickering
904938 ONTARIO INC. ....	904938	July 23, 1990	Willowdale
904940 ONTARIO INC. ....	904940	July 23, 1990	Downsview
904942 ONTARIO LTD. ....	904942	July 23, 1990	Listowel
904950 ONTARIO LTD. ....	904950	July 23, 1990	Sturgeon Falls
904953 ONTARIO LIMITED ....	904953	July 23, 1990	Brockville
904955 ONTARIO LTD. ....	904955	July 23, 1990	Brockville
904956 ONTARIO INC. ....	904956	July 23, 1990	Toronto
904957 ONTARIO INC. ....	904957	July 23, 1990	Toronto
904962 ONTARIO INC. ....	904962	July 23, 1990	Mississauga
904964 ONTARIO LIMITED ....	904964	July 23, 1990	Toronto
904972 ONTARIO LTD. ....	904972	July 23, 1990	Kirkland Lake
904973 ONTARIO LIMITED ....	904973	July 23, 1990	Scarborough
904974 ONTARIO LIMITED ....	904974	July 23, 1990	Scarborough
904975 ONTARIO LIMITED ....	904975	July 23, 1990	Willowdale
904978 ONTARIO LIMITED ....	904978	July 23, 1990	Thornhill
905699 ONTARIO INC. ....	905699	July 25, 1990	Markham
905700 ONTARIO LIMITED ....	905700	July 25, 1990	Newmarket
905702 ONTARIO LIMITED ....	905702	July 25, 1990	Mississauga
905703 ONTARIO INC. ....	905703	July 25, 1990	Toronto
905706 ONTARIO LIMITED ....	905706	July 25, 1990	Burlington
905709 ONTARIO INC. ....	905709	July 25, 1990	Toronto
905712 ONTARIO LTD. ....	905712	July 25, 1990	Oshawa
905716 ONTARIO INC. ....	905716	July 25, 1990	Richmond Hill
905722 ONTARIO INC. ....	905722	July 25, 1990	Islington
905727 ONTARIO INC. ....	905727	July 25, 1990	Woodbridge
905730 ONTARIO LIMITED ....	905730	July 25, 1990	Toronto
905735 ONTARIO LIMITED ....	905735	July 25, 1990	Toronto
905743 ONTARIO LIMITED ....	905743	July 25, 1990	Woodbridge
905745 ONTARIO INC. ....	905745	July 25, 1990	Toronto
905746 ONTARIO INC. ....	905746	July 25, 1990	Toronto
905747 ONTARIO INC. ....	905747	July 25, 1990	Toronto
905749 ONTARIO LIMITED ....	905749	July 25, 1990	Markham
905752 ONTARIO LIMITED ....	905752	July 25, 1990	Toronto
905762 ONTARIO INC. ....	905762	July 25, 1990	Toronto
905763 ONTARIO INC. ....	905763	July 25, 1990	Toronto
905764 ONTARIO INC. ....	905764	July 25, 1990	Toronto

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
905765 ONTARIO LIMITED .....	905765	July 25, 1990	Toronto
905766 ONTARIO LIMITED .....	905766	July 25, 1990	Toronto
905769 ONTARIO LIMITED .....	905769	July 25, 1990	North York
905775 ONTARIO LIMITED .....	905775	July 25, 1990	North York
905776 ONTARIO INC. ....	905776	July 25, 1990	Erin
905785 ONTARIO INC. ....	905785	July 25, 1990	Willowdale
905786 ONTARIO LIMITED .....	905786	July 25, 1990	Toronto
905787 ONTARIO LTD .....	905787	July 25, 1990	Kirkland Lake
905790 ONTARIO LIMITED .....	905790	July 25, 1990	Toronto
905792 ONTARIO INC. ....	905792	July 25, 1990	Parry Sound
905798 ONTARIO INC. ....	905798	July 25, 1990	Scarborough
905799 ONTARIO LTD. ....	905799	July 25, 1990	Toronto
905810 ONTARIO LIMITED .....	905810	July 25, 1990	Cambridge
905812 ONTARIO INC. ....	905812	July 25, 1990	Essex
905814 ONTARIO INC. ....	905814	July 25, 1990	Toronto
905823 ONTARIO INC. ....	905823	July 25, 1990	Woodbridge
905824 ONTARIO LIMITED .....	905824	July 25, 1990	Toronto

DIANE S. NAGEL,  
Director, Companies Branch.

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## Certificates of Incorporation Issued Certificats de constitution délivrés

NOTICE IS HEREBY GIVEN that, under the *Co-operative Corporations Act*, a Certificate of Incorporation has been issued to:

AVIS EST PAR LES PRÉSENTES DONNÉ qu'en vertu de la *Loi sur les coopératives*, un certificat de constitution a été délivré à :

Name of Corporation	Date of Incorporation	Head Office
Nom de la compagnie	Date de constitution	Siège social
LAS AMERICAS CO-OPERATIVE HOMES INC. ....	1990 - 07 - 24	Mississauga
CLARION CO-OPERATIVE HOMES INC. ....	1990 - 07 - 26	Mississauga

C. N. H. WILSON,  
Director, Credit Unions and Co-operatives Services Branch, Ministry of Financial Institutions.  
Directeur, Direction des Caisses populaires et des coopératives.  
Ministère des Institutions financières.

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## Letters Patent of Incorporation Issued Lettres patentes constitutives délivrées

NOTICE IS HEREBY GIVEN that, under the *Corporations Act*, Letters Patent have been issued to:

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Head Office
ATIKOKAN FIGURE SKATING CLUB INC (without share capital) .....	889745	May 25, 1990	Atikokan
BLAKE/BOULTBEE TENANTS ASSOCIATION (without share capital) .....	894202	July 11, 1990	Toronto
CANADIAN-CUBAN FRIENDSHIP ASSOCIATION ONTARIO (without share capital) .....	872764	June 26, 1990	Toronto
CANADIAN INTRAMURAL RECREATION ASSOCIATION—ONTARIO (without share capital) .....	899365	June 29, 1990	Gloucester

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Head Office
CANADIAN MACEDONIAN DANCE GROUP TANEC OF UNIONVILLE (without share capital) .....	899261	June 19, 1990	Richmond Hill
CANADIAN TURKISH CULTURAL ASSOCIATION OF HAMILTON (without share capital) .....	889777	July 4, 1990	Hamilton
CORNWALL HANDGUN CLUB (without share capital) .....	897177	July 6, 1990	Cornwall
COUNCIL ON AGING FOR RENFREW COUNTY (without share capital) .....	809573	July 5, 1990	Pembroke
CZECHOSLOVAK SOKOL ABROAD GYMNASTIC ASSOCIATION (TORONTO) (without share capital) .....	897101	July 6, 1990	Mississauga
GEORGETOWN MINOR BASEBALL INC (without share capital) .....	899218	June 13, 1990	Halton Hills
GRAFTON TRAILER & CAMPING ASSOCIATION (without share capital) .....	878113	July 9, 1990	Scarborough
KENORA DISTRICT CIVIL AIR SEARCH AND RESCUE ASSOCIATION (without share capital) .....	889795	July 9, 1990	Kenora
KINGSTON TOWNSHIP (VOYAGEURS) FAN ASSOCIATION (without share capital) .....	897134	July 4, 1990	Kingston
KINGSTON TOWNSHIP VOYAGEURS HOCKEY CLUB INC. (without share capital)	899292	July 6, 1990	Kingston
MOLESWORTH GOOD GUYS SNOWMOBILE CLUB (without share capital)	889798	July 4, 1990	Listowel
THE OPTIMIST CLUB OF GREENSVILLE (without share capital) .....	897153	July 5, 1990	Dundas
THE NORTH BAY NEWFOUNDLAND CLUB (without share capital) .....	897099	July 5, 1990	North Bay
PORT ROWAN TOMATO FEST (without share capital) .....	894257	July 9, 1990	Norfolk
PRINCETON CHILDREN'S CENTRE (without share capital) .....	894365	June 4, 1990	Blandford-Blenheim
ROYAL CANADIAN LEGION ZONE K-1 AND AREA VETERANS HOME CORPORATION (without share capital) .....	872729	July 11, 1990	Cobalt
ST. CATHARINES JETS GIRLS SOCCER CLUB (without share capital) .....	897169	July 4, 1990	St. Catharines
ST. LADISLAUS CHRISTIAN ASSEMBLY OF BLENHEIM #7744 (without share capital) ....	881831	July 4, 1990	Blenheim
ST. MARGARET COMMUNITY HOMES, SCARBOROUGH (without share capital) .....	881943	July 6, 1990	Scarborough
SUPPORTING KIDS IN DANCE OF BRANTFORD INC. (without share capital) ...	897114	July 4, 1990	Brantford
TWELVE MILE, LITTLE BOSHKUNG PROPERTY OWNERS INC. (without share capital) .....	899237	June 15, 1990	King City
UNIONVILLE ITALIAN SOCIAL CLUB (without share capital) .....	881884	July 12, 1990	Markham

DIANE S. NAGEL,  
Director, Companies Branch.



## Certificates of Amalgamation/Certificats de fusion

NOTICE IS HEREBY GIVEN that a certificate of amalgamation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
THE BAIRD INVESTMENT GROUP LTD. ....	900928	July	26, 1990	The Baird Investment Group Ltd. JA-PAT Driving Services Ltd.
BRAY MOTORS LIMITED .....	900212	July	31, 1990	Bray Motors Limited Bray Motors Chevrolet Oldsmobile Ltd.
COURTNEY & GRANT LIMITED .....	895577	Aug.	1, 1990	Courtney & Grant Limited J. Gordon Dawson Insurance Brokers (1987) Ltd.
DALEGREEN CONSTRUCTION LIMITED .....	905832	July	26, 1990	Dalegreen Construction Limited 905785 Ontario Inc.
DISPLAY & EXHIBIT CANADA LTD.	905986	July	27, 1990	849898 Ontario Inc. Display & Exhibit Canada Ltd.
FRANK STORIMANS LIMITED .....	905891	July	31, 1990	Frank Storimans Limited 558862 Ontario Limited
HICKLING CORPORATION .....	895567	July	31, 1990	James F. Hickling Management Consultants Limited Engineering & Economics Research Technologies EER Inc.
INSONG ENTERPRISES INC. ....	900043	Aug.	1, 1990	Parkdale Family Food Ltd. Insong Enterprises Inc.
INVERPOWER CONTROLS LTD. ....	900053	July	31, 1990	Inverpower Controls Ltd. Static Power Technology Inc.
JAN LUMBER COMPANY LIMITED ..	885195	July	31, 1990	Jan Lumber Company Limited 776911 Ontario Ltd.
MAGNA INTERNATIONAL (CANADA) INC. ....	906217	July	29, 1990	Magna International (Canada) Inc. Canada Clutch Corporation Focus Magazines Inc. 692967 Ontario Inc.
MERISEL CANADA INC. ....	906237	July	29, 1990	Softsel Computer Products Canada Inc. 653373 Ontario Inc.
MY-T-FRESH EGG CENTRE INC. ....	882285	July	26, 1990	My-T-Fresh Egg Centre Inc. 599821 Ontario Limited
NCM CARPET MILLS INC. ....	905736	July	27, 1990	NCM Carpet Mills Inc. National Yarn Extruders Inc.
NEO • ARCH LIMITED .....	893188	July	31, 1990	Neo • Arch Limited Stephen Marshall Consultants Limited
OASIS TELEFACILITIES CORPORATION .....	905833	July	26, 1990	Post Production Services Ltd. Oasis Telefacilities Corporation
ROBERT J. ALEXANDER LIMITED ..	883566	July	31, 1990	Robert J. Alexander Limited Kingston Vending Limited

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date	Names of Amalgamating Corporations
SAN SEA CONSTRUCTION COMPANY LIMITED .....	905724	July 25, 1990	San Sea Construction Company Limited Silverthorne Homes Inc.
TSL ENVIRONMENTAL LABORATORIES INC. ....	906618	Aug. 1, 1990	Burgener Technical Enterprises Limited Quanta Systems Limited 812871 Ontario Inc. 901296 Ontario Limited 901272 Ontario Limited
905855 ONTARIO LIMITED .....	905855	July 26, 1990	

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DIANE S. NAGEL,  
Director, Companies Branch.

### Certificates of Continuance/Certificats de prorogation

NOTICE IS HEREBY GIVEN that a certificate of continuance under the *Business Corporations Act*, 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Effective Date	Registered Office
PANAMERICAN BANCORP LEASING LIMITED .....	693435	July 19, 1990	Toronto

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DIANE S. NAGEL,  
Director, Companies Branch.

### Transfer of Ontario Corporations Transfert de compagnies ontariennes

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act*, 1982, an authorization to make an application for an instrument of continuance outside Ontario, has been given to:

Name of Corporation	Ontario Corp. No.	Effective Date	Jurisdiction Where Applying
CANROCK DRILLING SUPPLY LTD. ....	281316	July 18, 1990	Canada
DECOMA PLASTICS LTD. ....	735795	July 26, 1990	Canada
DECOMATRIM LTD. ....	721307	July 26, 1990	Canada
MASTERFEEDS LIMITED .....	811834	July 26, 1990	Canada
730520 ONTARIO INC. ....	730520	July 27, 1990	British Columbia

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DIANE S. NAGEL,  
Director, Companies Branch.

### Restated Certificates of Incorporation Certificats de constitution mis à jour

NOTICE IS HEREBY GIVEN that a restated certificate of incorporation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Effective Date
PLEASANT REALTY & FINANCIAL CORPORATION .....	693173	July 27, 1990

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DIANE S. NAGEL,  
Director, Companies Branch.

## Amendments to Articles/Modifications aux statuts

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act, 1982*, amendments to articles have been effected as follows:

Name of Corporation	Ontario Corp. No.	Effective Date
A.H. LAMOTHE CONTRACTING LIMITED .....	625365	July 24, 1990
AARON WINTRE REALTY LIMITED (formerly 879261 Ontario Limited) .....	879261	July 30, 1990
ACU-BUILT CONSTRUCTION LIMITED .....	894801	July 26, 1990
ACUMA INTERNATIONAL INC. ....	473862	July 30, 1990
ANDES MINING COMPANY LTD. (formerly 747124 Ontario Inc.) .....	747124	July 27, 1990
APV ROSISTA CANADA, INC. (formerly H & K Rosista Process Inc.) ..	317833	July 25, 1990
ARCHIVAL STORAGE DEVICES MARKETING INC. (formerly 888485 Ontario Limited) .....	888485	July 27, 1990
ARGYRO LABORATORIES LIMITED .....	471838	July 25, 1990
BC & JC HOLDINGS INC. ....	893904	July 26, 1990
BCL MAGNETICS LIMITED .....	309696	July 27, 1990
BEV HATCH INDUSTRIES LIMITED .....	359972	July 24, 1990
BRASPOWER LIMITED .....	896288	July 25, 1990
BRICKWELL CONSTRUCTION LIMITED .....	93449	July 25, 1990
BULK SYSTEMS (ONTARIO) LTD. (formerly 903815 Ontario Limited) ..	903815	July 30, 1990
C-S SPRACKMAN INSURANCE AGENCY LTD. ....	827091	July 25, 1990
CAMCO SPORTS DISTRIBUTORS LTD. (formerly 903844 Ontario Ltd.) ..	903844	July 30, 1990
CASTLE ROCK REAL ESTATE INC. (formerly Port Garapin Estates Limited) .....	862104	July 30, 1990
CENTURY 21 MARTIN & ASSOCIATES REALTY LTD. (formerly Martin & Associates Realty Ltd.) .....	858038	July 26, 1990
CITY AMBULANCE SERVICE OF QUINTE LIMITED .....	218747	July 23, 1990
COASTLINE TRADING INC. (formerly Nubian Trading Inc.) .....	903183	July 30, 1990
CONIX CANADA INC. (formerly 831114 Ontario Inc.) .....	831114	July 26, 1990
COLLECTRITE NORTHWESTERN ONTARIO INC. ....	864376	July 25, 1990
CONTINENTAL CLOSET AND MIRROR LIMITED (formerly Bengershon Holdings Inc.) .....	835785	July 30, 1990
CONTINENTAL CLOSET SYSTEMS LIMITED (formerly 897683 Ontario Limited) .....	897683	July 30, 1990
CORONATION HOUSE (BURLINGTON) LIMITED .....	213731	July 30, 1990
COSBURN, GRIFFITHS & BRANDHAM INSURANCE MANAGERS INC. ....	849307	July 25, 1990
CURTIS UTILITY BELTS INC. (formerly 882593 Ontario Limited) .....	882593	July 30, 1990
CUSTANCE FUNERAL HOME LIMITED .....	151222	July 30, 1990
DANDY TOYS & GAMES CANADA INC. (formerly New England Antiques Inc.) .....	867046	July 24, 1990
DANIELS MEADOWPINES CORPORATION .....	551287	July 26, 1990
DAVIDSON FURNITURE SPECIALTIES LTD. ....	482851	July 27, 1990
DODGE SUITES HOTEL INC. ....	736667	July 25, 1990
DOMINION AUTOMOTIVE INDUSTRIES INC. ....	870084	July 25, 1990
E & B CHAPMAN REAL ESTATE LTD. (formerly Ernest M. Chapman Real Estate (1989) Limited) .....	819283	July 24, 1990
ELEXON CAPITAL CORPORATION .....	732715	July 30, 1990
ESD 2549 CONSULTANTS LIMITED .....	570541	July 25, 1990
EXECUTIVE CONCEPTS INC. ....	753411	July 26, 1990
EZER CORPORATION (formerly 650422 Ontario Limited) .....	650422	July 27, 1990
FIRST SAULT CORP. (formerly 834723 Ontario Limited) .....	834723	July 26, 1990
FISHER CONTROLS COMPANY OF CANADA LIMITED .....	90567	July 26, 1990
FISHER-PRICE LIMITED .....	905696	July 30, 1990
FORTRESS ELECTRONICS INC. ....	592531	July 12, 1990
G & R TRANSFER SERVICES LTD. ....	747342	July 26, 1990
G. H. HOLDINGS INC. ....	826028	July 26, 1990
GÆLIAN PROPERTIES INC. (formerly Gallien Properties Inc.) .....	644158	July 24, 1990
GEOFFREY R. CONWAY PRODUCTIONS INC. (formerly G R C Productions Inc.) .....	791842	July 27, 1990
GG & AG HOLDINGS LTD. ....	893903	July 26, 1990
GRAND BEND FLOWERS INC. (formerly Farmer Bill's Flowers Inc.) ...	354864	July 24, 1990



Name of Corporation	Ontario Corp. No.	Effective Date
GREENER WELDING SUPPLIES INC. ....	504563	July 27, 1990
HALLMARK PLUMBING LTD. (formerly 904404 Ontario Limited) .....	904404	July 26, 1990
HARLEQUIN ENTERPRISES LIMITED LES ENTREPRISES HARLEQUIN LIMITEE .....	875301	July 30, 1990
HESSION GROUP LIMITED (formerly Hession Foods Limited) .....	734285	July 26, 1990
HIGHWOOD MANUFACTURING INCORPORATED (formerly 684656 Ontario Limited) .....	684656	July 27, 1990
HIRAM WALKER-ALLIED VINTNERS CORP. (formerly Allied-Lyons International Brands Limited) .....	712214	July 26, 1990
HOFFMAN INDUSTRIES OF CANADA LIMITED .....	79581	July 30, 1990
HOLSCAN ENTERPRISES LTD. ....	566356	July 12, 1990
HOME & RURAL CAMBRIDGE LTD. (formerly 902362 Ontario Ltd.) ..	902362	July 25, 1990
HURON TRACTOR LTD. ....	509930	July 24, 1990
INGRAM CHUTE SYSTEMS LIMITED .....	703512	July 30, 1990
INTERNATIONAL AMCO CORPORATION .....	71340	July 25, 1990
INTRALEC SALES INC. ....	460278	July 13, 1990
J.E. WEBB ENTERPRISES INCORPORATED .....	872836	July 26, 1990
JACOBS & THOMPSON INC. ....	076737	July 26, 1990
JAVELIN ENTERTAINMENT CORPORATION (formerly 606434 Ontario Inc.) .....	606434	July 25, 1990
JC SAILS INC. ....	863180	July 26, 1990
JEFF HEALEY BAND INVESTMENTS INC. (formerly 874281 Ontario Inc.) .....	874281	July 27, 1990
K. & FUNG CANADA LIMITED (formerly 892382 Ontario Limited) .....	892382	July 27, 1990
KIPLING TRAVEL INC. ....	669729	July 26, 1990
KOSTUCH PUBLICATIONS LIMITED (formerly Kostuch Communications Limited) .....	237588	July 27, 1990
L. V. D. S. INC. (formerly Lynx Video Duplication Services Inc.) .....	844962	July 30, 1990
LARONA INVESTMENTS LIMITED .....	380818	July 30, 1990
ELECTRONIC KADDY INDUSTRIES INC. (formerly Lectronic Kaddy Inc.) .....	881042	July 25, 1990
LEVITZ CONSULTING SERVICES LIMITED .....	364831	July 25, 1990
LIPSON FAMILY INVESTMENTS LIMITED .....	879438	July 27, 1990
M.N.M. HOLDINGS LTD. ....	893862	July 26, 1990
MAD CAP SPORTSWEAR INC. ....	842692	July 25, 1990
MARLIN CAPITAL FOODS LTD. (formerly Porcupine Balmoral Resources Ltd.) .....	678052	July 30, 1990
McCURDY & SONS WELDING INC. (formerly 746776 Ontario Limited)	746776	July 25, 1990
METRO LABEL COMPANY LTD. ....	359294	July 26, 1990
MEDICAL EDUCATION NETWORK (CANADA) INC./RESEAU D'EDUCATION MEDICALE (CANADA) INC. (formerly 895850 Ontario Inc.) .....	895850	July 27, 1990
MINTO INVESTMENTS INC. ....	882726	July 26, 1990
MORTGAGES 'R' US INC. (formerly Chandhoke Mortgage Trust Inc.) ...	713674	July 26, 1990
MULMUR AGGREGATES INC. ....	685928	July 25, 1990
NRB INC. (formerly Niagara Relocatable Buildings Ltd.) .....	518530	July 24, 1990
OLIVETTI SYSTEMS & NETWORKS CANADA LTD. (formerly Olivetti Canada Limited Olivetti Canada Limitee) .....	35816	July 26, 1990
OPINAC ACQUISITION CORPORATION .....	851147	July 25, 1990
OPINAC EXPLORATION LIMITED .....	554900	July 25, 1990
P.M.E. CONTRACTORS LTD. (formerly P.M.E. Electrical Contractors Ltd.) .....	844309	July 26, 1990
PAPER PEDDLERS INC. (formerly 901593 Ontario Limited) .....	901593	July 27, 1990
PARTY WAREHOUSE LIMITED (formerly 741935 Ontario Limited) .....	741935	July 27, 1990
PHOEBUS DEVELOPMENT CORPORATION (formerly Pheobus Development Corporation) .....	861634	July 27, 1990
PHOEBUS INVESTMENTS INC. (formerly Pheobus Investments Inc.) ....	861633	July 27, 1990
PHOTO EXPRESS 1 HOUR COLOUR LABS INC. ....	464885	July 27, 1990
PHS CONSULTING & INVESTMENTS INC. (formerly 904199 Ontario Limited) .....	904199	July 26, 1990
PLAZA TRAVEL CONSULTANTS LIMITED .....	288812	July 30, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
PLEASANT REALTY & FINANCIAL CORPORATION (formerly Mount Pleasant Resources Inc.) .....	693173	July 27, 1990
PROVINCIAL HOME RENOVATIONS LTD. ....	751989	July 24, 1990
R.C. LANE INSURANCE ADJUSTING LTD. ....	538906	July 24, 1990
R. & N. DOSTAL PHARMACY LTD. ....	204109	July 24, 1990
RAM CONTRACT CARRIERS LIMITED .....	610415	July 24, 1990
RED STEEL BUILDING SYSTEMS INC. SYSTEME DE CONSTRUCTION ACIER ROUGE INC. (formerly Red Steel Building Systems Inc.) .....	902224	July 27, 1990
REG'S CUSTOM WINDOW COVERINGS WORKSHOP INC. (formerly Reg's Custom Draperies and Decorating Inc.) .....	491800	July 25, 1990
SARLOS/DEMJAN/KOZMA INC. (formerly Andrew Sarlos Bear Fund General Partner Limited) .....	837881	July 26, 1990
SCHERING-PLOUGH HEALTHCARE PRODUCTS CANADA INC. LES PRODUITS DE SANTE SCHERING-PLOUGH CANADA INC. (formerly Scholl-Plough Canada Inc.) .....	695005	July 27, 1990
SEIBU (CANADA) LIMITED .....	518720	July 26, 1990
SHAKER MARKETING INC. (formerly 704688 Ontario Inc.) .....	704688	July 30, 1990
SHAKLEE SERVICE INC. (formerly U Factor Inc.) .....	395631	July 27, 1990
SHIEKH & SHIEKH MANAGEMENT INC. (formerly NLK Canada Inc.) .....	837800	July 25, 1990
SKI VALET INC. (formerly 716386 Ontario Limited) .....	716386	July 26, 1990
SOFTSEL COMPUTER PRODUCTS CANADA INC. ....	586266	July 26, 1990
SOLIDEL INC. ....	396587	July 26, 1990
SPITZTOY LIMITED .....	298627	July 27, 1990
STEPHENS D.S.K.I. INC. (formerly Donna Stephens Inc.) .....	628640	July 25, 1990
STEWART LAKE RESOURCES INC. RESSOURCES DE LAC STEWART INC. ....	99531	July 25, 1990
STEYR BEARING CANADA INC. (formerly Nordyne Holdings Limited) .....	67678	July 26, 1990
STROHN C.I.M. SYSTEMS INC. ....	740655	July 27, 1990
STRUCTURETHANE CORPORATION (formerly Sculpturethane Corporation) .....	790004	July 26, 1990
TAIT'S BAKERY LIMITED .....	410677	July 25, 1990
TRANSAMTEC INC. ....	608033	July 27, 1990
UNITECH CONSUMER ELECTRONICS SERVICE INC (formerly 692362 Ontario Inc) .....	692362	July 23, 1990
UPPER CANADA SALES & MARKETING INC. (formerly 672394 Ontario Inc.) .....	672394	July 25, 1990
W.B. GINGERICH SALES LIMITED .....	433539	July 24, 1990
WATERFORD APARTMENTS LIMITED .....	232525	July 26, 1990
WINTRE HOLDINGS LIMITED (formerly 879262 Ontario Limited) .....	879262	July 30, 1990
WOODLAWN WEST MALL INCORPORATION INC. (formerly 652476 Ontario Limited) .....	652476	July 27, 1990
YUBA AMERICAN GOLD, LTD. ....	721560	July 26, 1990
215 TRADERS MANAGEMENT INC. (formerly Timberlane Films Ltd.) ..	488470	July 25, 1990
350064 ONTARIO LIMITED .....	350064	July 27, 1990
370503 ONTARIO LIMITED .....	370503	July 27, 1990
530737 ONTARIO LIMITED .....	530737	July 13, 1990
531601 ONTARIO LTD. ....	531601	July 30, 1990
534925 ONTARIO INC. (formerly Kroy Unshrinkable Wools Limited) .....	534925	July 27, 1990
609291 ONTARIO INC. ....	609291	July 26, 1990
640877 ONTARIO INC. (formerly Taas Security Systems Inc.) .....	640877	July 25, 1990
653906 ONTARIO LIMITED .....	653906	July 25, 1990
663961 ONTARIO INC. ....	663961	July 24, 1990
672184 ONTARIO LIMITED (formerly Woodbridge Italian Bakery Ltd.) ..	672184	July 26, 1990
681170 ONTARIO INC. (formerly 681170 Ontario Inc) .....	681170	July 13, 1990
685881 ONTARIO INC. ....	685881	July 26, 1990
751827 ONTARIO LTD. (formerly Belmont Hardware Ltd.) .....	751827	July 25, 1990
805493 ONTARIO INC. (formerly Backerhaus Veit Inc.) .....	805493	July 26, 1990
833506 ONTARIO INC. ....	833506	July 30, 1990
849898 ONTARIO INC. ....	849898	July 27, 1990
875044 ONTARIO LIMITED .....	875044	July 24, 1990
892871 ONTARIO LIMITED .....	892871	July 25, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
898136 ONTARIO INC. (formerly Old Fashioned Donuts Corp.) .....	898136	July 27, 1990
33/90	DIANE S. NAGEL, Director, Companies Branch.	

### Articles of Revival/Statuts de reconstitution

NOTICE IS HEREBY GIVEN that certificates of revival under the *Business Corporations Act, 1982* have been endorsed reviving the following corporations:

Name of Corporation	Ontario Corp. No.	Effective Date
OMER QUENNEVILLE TRUCK SERVICE LTD. ....	475284	July 25, 1990
SACHICO CONSULTING & MARKETING INC. ....	559064	July 30, 1990
482444 ONTARIO INC. ....	482444	July 27, 1990
579402 ONTARIO LIMITED .....	579402	July 24, 1990
33/90	DIANE S. NAGEL, Director, Companies Branch.	

### Supplementary Letters Patent Issued Lettres patentes supplémentaires délivrées

NOTICE IS HEREBY GIVEN that, under the *Corporations Act*, Supplementary Letters Patent have been issued to:

Name of Corporation	Ontario Corp. No.	Effective Date
CAMBRIDGE MINOR SOFTBALL INC. (formerly Galt Minor Softball Inc.) .....	660624	July 4, 1990
CHILDREN'S AID SOCIETY OF HURON COUNTY .....	41046	July 6, 1990
COMMUNITY LIVING KINCARDINE AND DISTRICT (formerly Kincardine and District Association for the Mentally Retarded) .....	520518	July 5, 1990
EBONY GROUP COMMUNITY HOMES OF HAMILTON .....	771695	June 29, 1990
MUSKOKA LAKES MUSEUM PORT CARLING .....	136513	July 9, 1990
ORGANIZATION OF AUTOBODY REBUILDERS INC. (formerly Organization of Ontario Autobody Rebuilders Inc.) .....	553551	July 3, 1990
ROTARY-LAUGHLIN CENTRE .....	315432	June 25, 1990
SANDY HILL COMMUNITY HEALTH CENTRE, INC. (formerly Sandy Hill Community Development Corporation) .....	268196	July 5, 1990
WIGWAMEN INCORPORATED .....	253494	June 29, 1990
33/90	DIANE S. NAGEL, Director, Companies Branch.	

### Extra-Provincial Licences Endorsed Permis extraprovinciaux inscrits

NOTICE IS HEREBY GIVEN that, under Section 5 of the *Extra-Provincial Corporations Act, 1984*, Extra-Provincial Licences have been endorsed for:

Name of Corporation	Ontario Corp. No.	Jurisdiction of Incorporation	Effective Date
ALCOA INTER-AMERICA, INC. ....	899380	Delaware	June 29, 1990
COLEMAN R.V. PRODUCTS, INC. ....	906008	Delaware	July 27, 1990
COMPUCRAFT, INC. ....	906009	Georgia	July 27, 1990
COWEN TRUCK LINE, INC. ....	899394	Ohio	July 3, 1990
ENGLISH & SONS, INC. ....	899393	New York	July 3, 1990



Name of Corporation	Ontario Corp. No.	Jurisdiction of Incorporation	Effective Date
KASON INDUSTRIES INC. ....	899326	New York	July 19, 1990
MCPHERSON BROS. INC. ....	899391	Iowa	July 3, 1990
RAM UNIVERSAL, INC. ....	899379	Ohio	June 29, 1990
SEALAND ENVIRONMENTAL SERVICES, INC.	850021	Connecticut	July 20, 1990

33/90

DIANE S. NAGEL,  
Director, Companies Branch.

### Extra-Provincial Licences Amended Permis extraprovinciaux modifiés

NOTICE IS HEREBY GIVEN that, under Section 5 of the *Extra-Provincial Corporations Act, 1984*, Amendments to Extra-Provincial Licences have been endorsed for the following corporations:

Name of Corporation	Ontario Corp. No.	Jurisdiction of Incorporation	Date of Amendment
PHELPS DODGE CORPORATION OF CANADA, LIMITED .....	210739	Delaware	June 25, 1990

33/90

DIANE S. NAGEL,  
Director, Companies Branch.

### Decisions on Applications for Audit Exemption Décisions quant aux demandes de dispense en matière de vérification

NOTICE IS HEREBY GIVEN that the Director has received applications for exemption from certain requirements of Part XII of the *Business Corporations Act, 1982* from the corporations named hereunder and has rendered her decision.

Name of Corporation	Ontario Corp. No.	Whether Exemption Granted
BUTTERWORTHS CANADA LTD. ....	767319	Exemption Granted
CRITIKON CANADA INC. ....	499880	Exemption Granted
DEXTER ELECTRONIC MATERIALS CANADA INC. ....	78882	Exemption Granted
FIRST BRANDS INDUSTRIES CORPORATION SOCIETE INDUSTRIELLE FIRST BRANDS INC. ....	669311	Exemption Granted
FIRST BRANDS INDUSTRIES CORPORATION SOCIETE INDUSTRIELLE FIRST BRANDS INC. ....	669311	Exemption Granted
MERCURY MARINE ACCEPTANCE LTD. ....	684830	Exemption Granted
MUELLER CANADA INC. ....	9555	Exemption Granted
SEA RAY CREDIT LTD. ....	682704	Exemption Granted
TIMEX CANADA INC. ....	609784	Exemption Granted

33/90

DIANE S. NAGEL,  
Director, Companies Branch.

## Surrender of Charter and Termination of Existence (Corporations Act)

### Abandon de charte et dissolution (Loi sur les compagnies et associations)

NOTICE IS HEREBY GIVEN that, Orders under section 319 or 320 of the *Corporations Act*, as the case may be, have been made accepting the surrender of the charter/terminating the existence of the following corporations:

Name of Corporation	Ontario Corp. No.	Date of Order	Date of Dissolution
THE FRANK B. DIXON FOUNDATION .....	153888	June 27, 1990	June 27, 1990

33/90

DIANE S. NAGEL,  
Director, Companies Branch.

## Minister Consent to Change Club Premises

### Consentement du ministre pour le changement d'adresse d'un club

NOTICE IS HEREBY GIVEN that, under Section 278 of the *Corporations Act*, the consent of the Minister to change the location of a Club house or similar premises has been issued to:

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Head Office
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CANADIAN CROATIAN HOME ASSOCIATION (SAULT STE. MARIE) .....	303441	June 15, 1990	Sault Ste. Marie, Ont.
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33/90

DIANE S. NAGEL,  
Director, Companies Branch.

## Cancellation of Certificates of Incorporation (Corporations Tax Act Defaulters)

### Annulation de certificats de constitution

### (défaut d'observer la Loi sur l'imposition des personnes morales)

NOTICE IS HEREBY GIVEN that, under subsection 240 (3) of the *Business Corporations Act*, 1982, the Certificates of Incorporation of the corporations named hereunder have been cancelled by an Order dated 23 July, 1990 for default in complying with the provisions of the *Corporations Tax Act*, and the said corporations have been dissolved on that date.

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
A-Call Limited .....	329334	Carmelle Prud'homme & Associates Limited .....	502888
Aca International Design of Canada Ltd. ....	614471	Carriage House Colonial Furniture & Lighting Ltd. ....	383390
Accupak Corporation .....	585831	Cateo Inc. ....	385292
Alcona Excavating & Grading Co. Ltd. ....	340723	Class A Consultants Inc. ....	553465
Amber Business Computers Inc. ....	591236	Classic Tours Inc. ....	275163
Amv Imports Limited .....	691425	Columbus Pizza & Spaghetti House Tavern Limited .....	413653
Ashdale Developments Limited .....	623837	Computer Leisure Systems Inc. ....	422318
Ben Poirier Holdings Inc. ....	478398	Corey Investments Limited .....	242103
Brice's Burger Bars Limited .....	202250	Creative Kids (1986) Inc. ....	666424
Buffalo Head Music Inc. ....	586555	Dance Interlude Studios Inc. ....	526979
C & G Painting & Whitewashing Limited .....	662971	Danny Homes Limited .....	561688
Cafe Enterprises (Canada), Inc. ....	665388	David W. Jones Insurance Brokers Limited .....	663408
Canadian Cookie Corporation .....	497441		
Canadian Homes Builders Ltd. ....	598892		

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Detroit Eatery Restaurant Ltd. ....	707496	Sweeties Restaurant Ltd. ....	577999
Dibeck Video Incorporated ....	585289	T. M. Z. Maintenance Ltd ....	661371
Duo-Temp Magnetic Window Systems Limited .....	475349	T.D.F. Ross & Associates Ltd. ....	396153
Emerald Garden Restaurant Limited ....	316934	Taybrook Enterprises Limited .....	286098
Estae Design Associates Inc. ....	619245	Taylor-Rousseau and Associates Inc. ....	506063
Experdata Inc. ....	477303	The Headon Forest Club Inc. ....	668465
First Escrow Corporation .....	664216	The Mark/Barry Group, Inc. ....	405242
Gabul Sales Ltd. ....	587608	The Niko-Niko Marketing Group Inc. ..	619913
Galaxy Productions (Niagara) Ltd. ....	662776	Ticotin Inc. ....	520098
Geowaste (Ontario) Inc. ....	661299	Tiffany Computer Group Inc. ....	603830
Grant Young Designs Inc. ....	476176	Tiger Hydraulics Inc. ....	663262
Hacquoil Insurance Inc. ....	492942	Tjn Industries Ltd. ....	544061
Hair Studio Ltd. ....	509529	Tom Dyer Enterprises Inc. ....	551684
High Tech Software Ltd. ....	551368	Torcan Electronics Inc. ....	582361
Hometario Insurance Brokers Ltd. ....	482912	Total Store Fixturing Inc. ....	694482
Hp & P Investments Inc. ....	445187	Touchdown Labels Ltd. ....	336045
Intelligent Software Systems Inc. ....	622076	Tpt Associate Artists Ltd. ....	576056
Inter-Corporate Data Systems Inc. ....	363187	Trofej Ltd. ....	658637
Intercept Carpet Cleaners Ltd. ....	576573	Viscount Electric Limited .....	389798
Janeosler Group Construction Ltd. ....	663013	Walden Auto-Fix Ltd. ....	335836
Jasper, Knowles & Assoc. Business System Consultants Inc. ....	533269	Warfield Developments Limited .....	211819
Jmc Plastics Limited .....	521432	105 Davenport Ltd. ....	112346
Kaye Advertising Ltd. ....	269900	279240 Ontario Limited .....	279240
Kent-Elgin Produce Co. Limited .....	128841	413583 Ontario Limited .....	413583
Key River Holdings Limited .....	291781	447813 Ontario Limited .....	447813
Kincardine Nursing Home Limited .....	665673	482328 Ontario Limited .....	482328
Kingspence Realty Corp. ....	612680	497632 Ontario Inc. ....	497632
Leybourne Financial Incorporated .....	546563	503075 Ontario Inc. ....	503075
Lyndhurst General Store Limited .....	373489	508570 Ontario Limited .....	508570
Mapa Kitchen Systems Inc. ....	622436	510386 Ontario Limited .....	510386
Meaford Harbour Place Ltd. ....	549314	512897 Ontario Limited .....	512897
Mirpat Investments Limited .....	213618	517195 Ontario Limited .....	517195
Mississippi Security Services Ltd. ....	551060	523683 Ontario Limited .....	523683
Mocat Incorporated .....	416961	532870 Ontario Limited .....	532870
Muirhead Door Systems Ltd. ....	661611	538669 Ontario Inc. ....	538669
Nanotec Marketing Inc. ....	664287	541468 Ontario Limited .....	541468
Nino's Italian Restaurant (Alliston) Limited .....	355951	543073 Ontario Limited .....	543073
Oakwood Floor Cleaning Ltd. ....	441392	547371 Ontario Limited .....	547371
Ontario Removal Service Inc. ....	526738	554471 Ontario Limited .....	554471
Orange Holdings Inc. ....	277592	556838 Ontario Inc. ....	556838
Osrey Holdings Inc. ....	356493	559509 Ontario Inc. ....	559509
P.S. Films Inc. ....	357364	561179 Ontario Limited .....	561179
Pure Nature Natural Foods (1980) Inc. .	477777	562241 Ontario Ltd. ....	562241
Q-P Office Buildings (1981) Ltd. ....	478252	562761 Ontario Inc. ....	562761
Repas and Bernier Construction Limited	291396	564756 Ontario Limited .....	564756
Robert Fife Ltd. ....	384840	565931 Ontario Inc. ....	565931
Rolana Holdings Ltd. ....	412777	568665 Ontario Limited .....	568665
Roy Wilson Construction Limited .....	255943	568849 Ontario Limited .....	568849
Royal Commodities Inc. ....	663176	568865 Ontario Limited .....	568865
Safadi Limited .....	661137	569205 Ontario Limited .....	569205
Scarboro City Towing Inc. ....	629883	571564 Ontario Limited .....	571564
Seven-Eight-Eleven Foods Limited .....	331028	582432 Ontario Limited .....	582432
Shadetree Developments Limited .....	133617	583876 Ontario Limited .....	583876
Shonbrook Holdings Limited .....	506697	584546 Ontario Ltd. ....	584546
Silksations Lingerie (Toronto) Inc. ....	621220	585886 Ontario Inc. ....	585886
Southwestern Leasing Inc. ....	552946	592919 Ontario Inc. ....	592919
Spankeen Cleaners Ltd. ....	575413	609225 Ontario Limited .....	609225
Sparticus Floor Cleaning Limited .....	295751	619243 Ontario Inc. ....	619243
Studio Video Technology Ltd. ....	478659	620343 Ontario Inc. ....	620343
Substitution Investments Inc. ....	512234	621721 Ontario Inc. ....	621721
		621729 Ontario Inc. ....	621729
		622145 Ontario Limited .....	622145
		625572 Ontario Limited .....	625572



Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
626038 Ontario Inc. ....	626038	662427 Ontario Ltd. ....	662427
633778 Ontario Inc. ....	633778	663070 Ontario Limited ....	663070
637581 Ontario Inc. ....	637581	685756 Ontario Inc. ....	685756
643471 Ontario Limited ....	643471	688347 Ontario Limited ....	688347
655480 Ontario Inc. ....	655480	80644 Ontario Limited ....	80644
660568 Ontario Inc. ....	660568	888 Property Management Limited .....	583478
661391 Ontario Limited ....	661391		
661664 Ontario Inc. ....	661664		
662010 Ontario Limited ....	662010		

DIANE S. NAGEL,  
Director, Companies Branch.

## Notice of Default in Complying with the Corporations Tax Act Avis de défaut d'observer la Loi sur l'imposition des personnes morales

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 240 (1) of the *Business Corporations Act*, 1982 that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, Orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario L1H 8H6.

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
A & C Appliance Services Limited .....	459627	Applewood Productions Ltd .....	550871
A and D Metal Recycling Limited .....	639060	Aquatics Plus Company Limited .....	675788
A.L.K. Fashions Inc. ....	683818	Arcad Aluminum & Glass Inc. ....	682764
A&R Transportation Systems Inc. ....	678681	Armandon Trading Co. Ltd. ....	397175
Abbey Tree Surgeons Ltd. ....	453781	Armstrong Distributing Ltd. ....	637237
ABS Fabrication Ltd. ....	682737	Arnold's Conveyors Limited .....	331653
Accrington Developments Inc. ....	682315	Art McWhinnie Fuels Ltd. ....	247340
Action of Windsor Realty Limited .....	135091	Art Vitale Enterprises Corp. ....	479332
Adept Courier Service Inc. ....	639601	Artistic Plumbing Supply Inc. ....	460298
Adjala Cottage Industries Limited .....	679829	Asia Business World Corp .....	683820
Advertising Focus Inc. ....	677784	Aspen-Maple Interests Inc. ....	454967
Advocatus Management Inc. ....	454108	Autoexec Enterprises Inc. ....	679503
Affordable Renovations Ltd. ....	566778	Automatic Alarms & Signals (Eastern) Limited .....	119864
Agincourt Bus & Coach Inc. ....	636095	Automatic Alarms & Signals (Northern) Limited .....	119865
Alan Frederick Smith & Son Enterprises Limited .....	524666	Automatic Alarms & Signals (Southern) Limited .....	119866
Alanna V (Yorkdale) Ltd. ....	635082	Ava Management Services Limited .....	224818
Albert Brown Real Estate Limited .....	116035	Avenue Iron & Metal Company Limited	474469
All-Pro Basketball Camp Limited .....	268214	Avondale Trafalgar Estates Limited .....	678659
Allied Security Services Ltd. ....	556703	B & C Built-In Systems Inc. ....	682780
Alphaform International Installations Inc. ....	679409	B E K Empire Imports (1982) Inc. ....	505520
Alpin Tile Limited .....	563608	B. Solanki Trading Company Limited ..	516571
Alternative Software Systems Group Inc. ....	679863	Baby Nook Inc. ....	681480
Aluminum Specialties Ontario Limited ..	505508	Bad Boy Electronics Ltd. ....	601809
Ancaster Bakeries Limited .....	310315	Bal Harbor Tennis Corporation .....	552394
Andon Productions Ltd .....	682268	Bale Carpentry Inc. ....	729670
Antajan Investments Inc. ....	681767	Barcham and Anschuetz Limited .....	426218
Anthony, Jones & Foulds Inc. ....	638183	Bastien Fuels Limited .....	120937
Anubar Holdings Limited .....	419270	Bay Point Properties Ltd. ....	683752
Appas Group Inc. ....	684621	Beach Club International Ltd. ....	672297

Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
Beacon Bryson Limited .....	539760	Cedarbrai Construction Inc. ....	601680
Beaux Images International Ltd. ....	585762	Cedemco Technologies Inc. ....	623473
Beckwith Developments Inc. ....	683512	Central Monetary Management Corp. ..	682502
Belica Holdings Inc. ....	682667	Central Parkway Developments Limited	256281
Bells Cedar Craft Fine Furniture Ltd. ..	564878	Century 21 Achievers Inc. ....	297089
Ben Don Catering Company Ltd. ....	313542	Charalex Corporation .....	396692
Ben-Shir Holdings Ltd. ....	701697	Chatham Automatic Food Service	
Benmore Holdings Ltd .....	495691	Limited .....	374759
Benson Black Limited .....	518571	Chee-Lee Foods Ltd .....	518489
Berestovoy Group Inc. ....	684702	Chemical Finishing Systems Ltd. ....	371501
Berrn Research Ltd. ....	640017	Chesmore Investments Limited .....	490174
Bersslen Investments Inc. ....	641992	Chevalier Investments Ltd. ....	681565
Beta 1 Computing Systems Inc. ....	484287	Chicken Roost Limited .....	57415
Better Halves Novelties Inc. ....	674452	Chrisbram Holdings Limited .....	677392
Bevron Bakery Ltd. ....	458651	Cidco Creme Cocktail D'lites Inc. ....	676662
Beyond 1984 Productions Inc. ....	518577	Clay-Mill Energy-From-Waste, Inc. ....	669388
Biljur Mobile Glass Co. Limited .....	315992	Clovix Cartage Limited .....	558731
Binmore Risk Management Consultants		Cobden Animal Centre Limited .....	312339
Inc. ....	566694	College Sheet Metal Works Limited ....	225823
Bittoni's Fashion International Inc. ....	632300	Color 2000 Photo Centre Inc. ....	682150
Black Castle Restaurant & Tavern		Comdar Financial Corporation .....	445362
Incorporated .....	411694	Comet Furniture Limited .....	111932
Blackline Enterprises Inc. ....	673162	Comic Source Inc. ....	681236
Bloor News Sales Inc. ....	562992	Commercial Hotel (Maryhill) Ltd. ....	318622
Blue Mountain Chalet Rentals Inc. ....	671309	Con Potato Farms Ltd. ....	678550
Booklear Books Inc. ....	680191	Conroy Electronics Inc. ....	574991
Bowmanville Optical Limited .....	148651	Consolidated Waste Management Inc. ..	615899
Bracebridge Heights Estates Ltd. ....	682828	Contram Ltd. ....	598024
Braemar Farms Ltd. ....	536248	Coraco Construction Inc. ....	563963
Branby Holdings Limited .....	546781	Corbetts Market Place Inc. ....	423165
Brant Painting & Technology Inc. ....	512801	Coresam Consulting and Management	
Bren's Mighty Maid Cleaning Services		Services Inc. ....	490394
Inc .....	684025	Cornerstone Insurance Agency Ltd. ....	339365
Brockview Holdings Limited .....	650094	Country Star Donuts Limited .....	376298
Buddy Developments Inc. ....	678901	Crazy Lee's Limited .....	347158
C. & J. Nomikos Limited .....	451638	Credencetrio Limited .....	679470
C.G.K. Musical Productions Ltd. ....	619951	Crux Solutions Inc. ....	683207
C-Moy & Sons Corporation .....	677586	D & D Mulholland Enterprises Ltd. ....	634443
C-V Marketing Inc. ....	682309	D. C. Tompkins Furniture Ltd. ....	613878
Cafe Monte Cristo Inc. ....	676711	D. Menechella Investments Limited ....	342457
California Campus Textile Inc. ....	637792	D-L Productions Limited .....	228377
Camral Developments Inc. ....	682877	Dan Ellis Holdings Inc. ....	465462
Canada Access Equipment Ltd. ....	733856	Databyte Computers Inc. ....	490289
Canada Student Painters Inc. ....	712065	De Coster & Cadu Inc. ....	683304
Canadawide Medical Management Ltd.		Deercreek Woods Inc. ....	565859
Canadian Automobile Recovery Services		Definitive Design Inc. ....	680144
Inc. ....	487017	Deftco Enterprises Inc. ....	680000
Canadian International Trading and		Delgiudice Bros. Painters Limited .....	604641
Bartering Corporation .....	686302	Deshel Enterprises Corp. ....	547621
Canadian Recreational and Travel		Di Lecce Floor & Wall Covering	
Consultants Limited .....	596654	Contractors Limited .....	651524
Canadian Wire Hanger Corp. ....	682240	Di Maurizio Food Market Limited .....	212864
Canadian Woman's Fitness Inc. ....	566662	Dixon T.V. & Stereo Inc. ....	490458
Card Shark Inc. ....	457596	DMG Systems Inc. ....	641075
Cariati-Saro Developments Inc. ....	682173	Don Wauchope Imaging Inc. ....	654558
Carico Clothing Company Ltd. ....	628792	Doug Sinclair Sales and Service Limited	
Carousel Donuts Limited .....	485111	Downcraft Products Wentworth Inc. ....	687564
Carriere Leasing Ltd. ....	594765	Dual Clean Janitorial Services Ltd. ....	638870
Carry-Craft Ltd. ....	604852	Dulland Electric Inc. ....	457322
Casa Blanca Motor Hotel (1972) Limited		Dunn's Insurance Limited .....	91185
Casabella General Contracting Ltd. ....	683252	Dunnville Ram Veggies Ltd. ....	635465
Castle Brewing Limited .....	680865	Durham Raiders Hockey Inc. ....	599380
Cattails Ltd. ....	341281	Dynarex Distributing Ltd. ....	682781

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
E. G. Harris Manufacturing Company Limited .....	386585	Gill Protection Systems Limited .....	343459
E. N. Onen & Associates Limited .....	205789	Gilles Theberge Leasing & Sales Ltd. ..	451379
E.F.L. Education For Living Inc. ....	549234	Glascon Realty Limited .....	391857
E.J.S. Fluorescent Maintenance Inc. ....	368887	Gold Medal Group Inc. ....	228879
Eastern Ford Sales Limited .....	306058	Gold Oven Bakery Ltd. ....	558971
Echolab Report Systems Inc .....	637769	Golden Bonanza Stable Ltd. ....	620443
Econocorp Development Consultants Ltd. ....	627657	Gordon Capital Holdings Inc. ....	679192
Economical Hotel & Restaurant Supply Ltd. ....	679437	Grabb Realty Limited .....	456675
Elias Developments Ltd .....	586705	Grant's Leisureland Ltd. ....	371091
Enchante Inc .....	683901	Granton Holdings Limited .....	682435
Encore Home Entertainment Inc. ....	679559	Greenbriar Interiors Inc. ....	631383
Envitech Recycling Inc .....	672086	Gregory, Herczegh Contracting Inc. ....	682049
Epicure Travel Incorporated .....	634388	Grewal Dhami Limited .....	674493
Equitcorp Capital Group Inc. ....	682754	Grisam Trading Inc. ....	683301
Equity Control Limited .....	228043	Ground Star Systems Limited .....	295222
Essek Investments Limited .....	319203	Guard-Tech Automotive Inc. ....	637168
Etna Travel and Tours 82 Inc. ....	527093	H B Creative International Inc. ....	279953
Exerfit Exercise Consultants Ltd. ....	632556	H. J. Turner Industries Limited .....	234448
Experience...The Travel Game Inc. ....	643639	Hahn Insurance Brokers Inc. ....	562944
Expert Surfing Inc. ....	607988	Hal Roach Studios, Inc. - Canada .....	682008
F.I.M. Motion Picture Corporation .....	682187	Haleander Enterprises Limited .....	609822
Fabrich Enterprises Limited .....	122892	Hammen's Leather & Clothing Limited .....	682882
Federal Drywall Ltd. ....	683970	Harry's Men's Wear Limited .....	82081
Fernbrook Homes (Ajax) Limited .....	681769	Hartwood Window Fashions Inc. ....	670511
FGMP Insurance Brokers Ltd. ....	680950	Hay-Farr Enterprises Limited .....	518429
Fincco Holdings Inc. ....	495198	Hefsul Industries Limited .....	639710
First London Leasing Limited .....	376890	Heritage Brick Limited .....	457087
First Unit Photography Limited .....	596555	Heron International (A.M.V.) Inc. ....	682831
Fletcher-Henchel Thermal Industries Limited .....	234801	Hi Tech Exotics Inc. ....	685637
Flower Town Neon Limited .....	644694	Hi-Tech Automotive Inc. ....	655011
Fluffy's Foods (1987) Corporation .....	711612	Hillside Racquets Limited .....	296304
Fluffy's Management Inc. ....	629545	Hitch and Loader Trailer Manufacturing Ltd. ....	615870
Ford Financial Services Inc. ....	679960	Hitron Systems Limited .....	678450
Forecastle Realty Ltd. ....	333933	Hogan Thedford Farms Ltd. ....	678542
Formal Encounters Photographic Corporation .....	653893	Holborne Homesteads Limited .....	677493
Formedent Financial Advisors Inc. ....	623946	Holokey (Canada) Inc. ....	681593
Four Courts (Eastern) Limited .....	305300	Home Video Entertainment Inc. ....	567975
Frank Zedo's Painting Inc. ....	637524	Hotham's Sports Centre Inc. ....	683891
Frederick Parker (Canada) Limited .....	93773	HST Heritage Mortgage Corporation Limited .....	600771
Fun Filled Tours Inc. ....	679447	Hurley & Csire Ltd. ....	593493
Fundamental Resources Inc. ....	246922	Hyder International Limited .....	442113
Funtastic Computer Lab Inc. ....	296539	Hyvol Mfg. Systems Inc. ....	678575
Futuristic Perceptions Inc. ....	568888	I and G Incorporated .....	455725
G & R Machine & Fabricating Co. Ltd. ....	309957	I.Q. Holdings Limited .....	682746
G.&V. Del Duca Merchandising Limited .....	446291	I'm in the Money Music Inc. ....	682101
Galantin Management Inc. ....	678785	Imperial Submarine Ltd. ....	317750
Gemini Retail Advertising Inc. ....	377557	Imse Inc. ....	676460
Gen-Mar Marketing Ltd. ....	679609	Indian River Window Works Ltd. ....	564881
General Employment Enterprises of Canada Ltd. ....	457532	Inference Canada Inc. ....	637390
Geoff's Service Centre Ltd. ....	517254	Ingersoll Pools & Spa Inc. ....	683071
Geor-Gina Fume Protection Devices Inc. ....	579822	Inside Outfitters Inc. ....	548589
Georgian Water Refining Inc. ....	683991	Integrated Asset Management Mortgage Corporation .....	709723
Gerard Steel Industries Ltd. ....	678476	Inter-Granite Canada Ltd. ....	679819
Gerskup Investments Limited .....	204331	Interdome Group Inc. ....	681742
Gervais Sheet Metal Inc. ....	676442	Intergray Trading Inc. ....	682007
Gileni Design Limited .....	679816	International Euro Money Corp .....	682348
		Interprop Investments Limited .....	600874
		Intradac Incorporated .....	672399
		J. H. Shaw Engineering Services Limited .....	560966
		J. P. Armstrong Productions Inc. ....	518959



Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
J.R.C. Travel Marketing Inc. ....	493595	Lodge Talent and Model Management Inc. ....	678761
Jack Goldman Agencies Limited ....	389558	Log Cabin Holdings Inc. ....	677679
Jade Wok Restaurant Inc. ....	660832	Lorabia Holdings Limited ....	419272
Jaw Fabricators Ltd. ....	301687	Lorelei Jewellery Limited ....	342057
Jms Mine Contracting Ltd. ....	681491	Lorne Stepak Enterprises Inc. ....	486431
Joe Dyer Sales Inc. ....	525985	Lungo Mare Investments Inc. ....	678685
Joe Raffaele J R Enterprises Incorporated ....	682073	Luppettos Restaurant Limited ....	647644
John Freeman Associates Limited ....	383798	Lustro-Plus Inc. ....	605791
John Hoare Industrial Doors Inc. ....	681264	M. G. S. Developments Limited ....	145245
John Kanary Programs Inc. ....	599389	M.A.P. Woodworking Systems Ltd. ....	682938
John L. Williams Gas Ltd. ....	493252	M.L. Searches Inc. ....	682161
Junius Holdings Limited ....	419274	M.M.B. Enterprises Inc. ....	676644
K & S Associates Ltd. ....	686794	Macchesney Food Products Limited ....	679811
K Corporation of Canada Limited ....	679537	Mandala Investments Inc. ....	275551
K.L. Clothing Co. Ltd. ....	683969	Manders Glass & Mirror Ltd. ....	598050
K.M.H. Auditory Equipment Inc. ....	682204	Marenas Coffee Shops Limited ....	70256
K.N.K. Limited ....	635889	Marja Frames Limited ....	425934
Kade Cheese House Inc. ....	646573	Mark I Photoproducts and Services Inc. ....	311067
Kaiser Computer Systems Inc. ....	597411	Mark Krupa Enterprises Limited ....	492803
Kantraco Ltd. ....	681218	Markham Accounting & Management Services Inc. ....	578429
Katmandu Investment Corporation ....	587243	Marmora Herald Limited ....	254406
Kawartha Microfilm Systems Ltd. ....	685390	Mateba Webbing of Canada Limited ....	209398
Keith De Abreu Enterprises Inc. ....	698224	Maximum Management Co. Inc. ....	493460
Kel-Kar Ltd. ....	392564	Mayfan Investments Inc. ....	493501
Kelian Industries Ltd. ....	418798	Mazatec Systems Inc. ....	684013
Kenics Canada Inc. ....	455425	McBurney Publications Inc. ....	678816
Kenora Dock Services Ltd. ....	569717	McOuat Installations Ltd. ....	705212
KH Displayworks Ltd. ....	536416	Medic Comp Laboratories Ltd. ....	253329
Kilbride Home Heating Limited ....	636794	Medicosoftware Inc. ....	563362
Killeaney Maintenance Limited ....	611515	Mega Cleaning Services Inc. ....	684972
Kimran Holdings Limited ....	221393	Metharcon Builders Inc. ....	562496
Kingsville Excavations Ltd. ....	679627	Micro Computer Supplies Ltd. ....	563895
Kingswood Entertainment Concepts Limited ....	457404	Micronucleus Inc. ....	589981
Kirk Investments Ltd. ....	59674	Milgav Investments Limited ....	367673
Kirk Karab Entertainment Inc. ....	681444	Milspec Consultants Inc. ....	663422
Knox Park Gang Musical Productions Ltd. ....	631586	Milton Transportation Incorporated ....	462165
KWK Real Holdings Inc. ....	488454	Milton Trickey & Associates Inc. ....	426916
L. & W. Auto Supplies (Thunder Bay) Limited ....	352627	Modit Fashions Limited ....	681502
L. R. (Towne & Countrie) Management Ltd. ....	563035	Monte Boutique Inc. ....	505338
L'raffine Distributors Inc. ....	593874	Monti Tanner Successful Solutions Ltd. ....	683796
La Casa Bancroft Ltd. ....	679574	Morka Properties Inc. ....	678382
Lafmec Enterprises Inc. ....	639336	Morrow's Pianos & Organs Ltd. ....	363345
Lagace Confectionery Limited ....	235715	Moth Films Ltd. ....	685052
Lake Haven Estates Limited ....	231281	Motor City Chimney Sweep Ltd. ....	558093
Lamp Arts & Media Productions Inc. ..	573372	Mountain Cat Transport Inc. ....	682857
Lane Park Holdings Inc. ....	678097	Multi Trading House Inc. ....	489156
Lane Park Investments Inc. ....	678098	Mulvey & Banani Information Services Inc. ....	681581
Larlev Investments Ltd. ....	492630	Munitech Sales Inc. ....	639282
Lasers & Lans Inc. ....	679807	Murray R. Fox Food Brokers Limited ..	344316
Laurentien Towers Hotel Ltd. ....	504189	N. and J. Investments Limited ....	200102
Laverty Breckon and Sharpe Inc. ....	683478	N. S. Plastics Inc. ....	567406
Leed's-Smartwear Limited ....	509472	N.C.S. Instrumentation Inc. ....	403527
Levicks Fashion Accessories (1986) Ltd. ....	682972	N.T.K. Investments Ltd. ....	682867
Leviperm Manufacturers Inc. ....	637285	Nancoff & Associates Ltd. ....	679891
Lindenbaum's Limited ....	128190	Napetro Limited ....	680986
Little Beachers Clothing Limited ....	682738	Nassr Management Incorporated ....	345674
Lockhart Concrete Products Ltd. ....	493645	Nessor Inc. ....	682165
Lockhart's Enterprises Ltd. ....	227977	New Design Jewelry Inc. ....	736987
		New Markets Inc. ....	679885
		New York Corporation ....	680099

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Newcan Crane Rental of Ontario Ltd. ....	679577	Primex Leasing Limited .....	676723
Newcroft Meadows Ltd. ....	679852	Pro Pallet Inc. ....	640474
Newmarket Leisure Sport Inc. ....	679076	Promotional Graphics Inc. ....	645087
Nirvana Recordings Ltd. ....	356107	Property Finance 2000 Ltd. ....	681263
Nor-West Heritage Programmes Inc. ....	539820	Prophet Business Systems Ltd. ....	681558
Norasco Transit Limited .....	389349	Queen's Quay Leisure Corporation .....	620275
Norgroup Investors Inc. ....	686685	R. A. Chapman Holdings Incorporated .....	685778
Norland Inc. ....	683668	R. Dalley & Associates, Transportation Consultants Ltd. ....	554694
North York Fitness Limited .....	562760	R. Dietz & Company Ltd. ....	634250
Northgate Steel Ltd. ....	437461	R.M.I. Contract Interiors Limited .....	682823
Northumberland Paddle Co. Inc. ....	480490	Radiant Pictures Inc. ....	348313
Nova Oxygen Services Inc. ....	595570	Rahco Management Ltd. ....	404074
Nu-Will Construction Inc. ....	682671	Ramzi International Imports Ltd. ....	678691
Oak Ridge Forest Products Inc. ....	681424	Rantran Transport Inc. ....	721692
Oakwood Landscaping Incorporated ....	623220	Raz Fashions Inc. ....	681634
Ocean Pacific Autos Ltd. ....	635815	Redgreen Holdings Inc. ....	642938
Old Tannery Estates (Bracebridge) Ltd. ....	343449	Reiber Court Investments Limited .....	500198
Old Tyme Repair Shoppe Ltd. ....	600602	Reidell Chemicals Limited .....	373494
Olde Tyme Reproductions Inc. ....	640867	Renny Klassic Clothing Inc. ....	684099
Oldest Investments Limited .....	217797	Residential Wood Concepts Inc. ....	658101
Omni-Consul Corporation .....	579604	Retto Investments Inc. ....	599296
On-Yon Producers Ltd. ....	678519	Reuben's Clockworks Inc. ....	680057
Orchid Communications Inc. ....	560996	Rexcom Services Inc. ....	655359
Orico International Corporation .....	675870	Rhode Island Diner Inc. ....	683895
Ortiga Marketing and Management Services Inc. ....	681627	Rib-Time Foods Limited .....	414953
Oslerview Estates Ltd. ....	280731	Rib'n Chick'n Coop Limited .....	451222
Ovelty Investments Limited .....	399171	Richlor Developments Ltd. ....	683956
Oyler Oil Inc. ....	491925	Richmond Residence Limited .....	253262
P & C Olympic Automotive Ltd. ....	682149	Rideau Glass Limited .....	239279
P. E. Brule Co. Limited .....	80092	Rio Clothing and Promotions Inc. ....	682827
P.&S. Frontline Industries Inc. ....	680134	Risorgimento Plastering Co. Ltd. ....	422357
Paeon Properties Inc. ....	722668	Robart Products Inc. ....	479156
Pansophic Publishing Inc. ....	635857	Robert A. Brown Electrical Contracting Limited .....	342258
Paragon Fitness Equipment Ltd. ....	682676	Rockwest Investments Ltd. ....	567502
Park Windsor Apartments Limited .....	450247	Rodper Energy Drillers Limited .....	614133
Parker Computing Services Inc. ....	683941	Romeo International Media Inc. ....	635461
Parkins Plumbing Incorporated .....	697181	Roo Investments Inc. ....	673163
Parry Sound Vacationland Incorporated .....	317901	Rosedale Industrial Plaza Inc. ....	682940
Paul Lacombe Equipment Limited .....	659205	Ross Design & Contracting Inc. ....	681421
Paul Mockler Productions Limited .....	637447	Roy Ward and Associates Inc. ....	679403
Paymun Enterprises Ltd. ....	420078	Royal Maintenance Sudbury Ltd. ....	510070
Peel Taxi Limited .....	150687	Royalpark Homes Inc. ....	565075
Perception Technology Canada Inc. ....	653245	Rubicon Sport Fitness Industries Inc. ...	692186
Performance Leasing Ltd. ....	678498	Rubore Enterprises Inc. ....	683313
Perplan Project Management Inc. ....	682782	Rudolf Prell Inc. ....	459647
Pestek Masonry Contractor Inc. ....	679932	Rural Impressions & Collectables Inc. ..	566583
Pet Luxury Ltd .....	491569	S.O.S. Ceramic and Marble Ltd. ....	683287
Peter Stinson Guelph Ltd. ....	386087	Sable Designed Kitchens Inc. ....	682254
Peter's Home Improvements & Plastering Limited .....	371714	Safe-T-Aids Inc. ....	511781
Phil Cait Pharmacy Ltd. ....	600772	Saigon Le Lai Restaurant Ltd. ....	634293
Phyleeva Investments Limited .....	228079	Sal-Mon Fruits Limited .....	637119
Piccadilly Filly Ltd. ....	680563	Salon Capri Ltd. ....	246738
Pine Ridge Conduit Limited .....	640814	Sancor International Inc. ....	526083
Pirol Construction Inc. ....	658716	Sanitran Holdings Inc. ....	722068
Pixel Television Limited .....	491745	Saturn Insurance Brokers Inc. ....	640575
Pomp Industries Limited .....	211037	Schromac Limited .....	260789
Popeye's Motorworks Limited .....	679596	Scott Holdings International Inc. ....	464572
Poplar Wells Developments Limited ....	225245	Scotty's Meat Products Ltd. ....	684077
Port Royal Freight Ltd. ....	604879	Scrubbing Manufacturing Limited .....	395439
Prespac Blinds Inc. ....	683342	Select Home Warranty Inc. ....	600232
Prespac Installations Inc. ....	683340	Select Restaurant Plaza Corporation ....	627273



Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
Selfsation Inc. ....	612097	The J. Armstrong Search Group Inc. ...	683781
Shabsy Inc. ....	677991	The Mindor Group Inc. ....	683980
Shamsheer Group Inc. ....	687235	The Niagara-On-The-Lake Inn Ltd. ....	679961
Shawn Publications Inc. ....	559661	The Original Glass Store Franchising Corporation .....	765745
Shirley's Professional Nail Techniques Inc. ....	599530	The Power House (Canada) Ltd .....	419588
Shopping Safaris of Toronto Inc. ....	677627	The Specialty Sports Shop Inc. ....	454121
Shulman-La Berge Marketing-Media Corporation .....	683034	The W.U.N. Corporation .....	529296
Sibany Services Limited .....	678863	The Wear House (Brantford) Inc. ....	399500
Siciliano Auto Repair Inc. ....	518837	Third Wave Software Limited .....	492662
Six Hundred Investments Limited .....	116704	Tiberius Film Corporation .....	423889
Skymark Electronics Ltd. ....	474214	Tien Shing Records (Canada) Ltd. ....	567395
Slick Fashion Accessories (1983) Inc. ...	536733	Tomken Corporate Centre Inc. ....	677398
Soo Painting Limited .....	290522	Tor Dent Ltd. ....	683788
Spanakos Enterprises Limited .....	678574	Toronto Barter Trade Exchange Inc. ...	639135
Spare-Time Amusements Ltd. ....	457503	Toronto Tractor Repairs Limited .....	216122
Spectrum Chemical Company Ltd. ....	365390	Total Maintenance Services Limited .....	330175
Sports People Publishing Inc. ....	599889	Tracking Technology Inc. ....	684121
Sports World Memorabilia Inc. ....	563173	Training & Management Dimensions Ltd. ....	448939
Sprad Limited .....	138871	Travel Policy Control Inc. ....	682365
Ssabo Inc. ....	599657	Tri Dont Altamonte Management Inc. .	517970
Stampede Investments (Sudbury) Ltd. ..	655189	Tri-Alpha Developments Ltd. ....	679864
Stamping Specialties Limited .....	477172	Tri-Interiors Contractors Limited .....	677470
Stay-Fit Garment Manufacturing Ltd. ...	680352	Tri-Jay Travel Inc. ....	676700
Steak-N-Sac Limited .....	456240	Triple Tones Investments Ltd. ....	471242
Stevenson Tool & Die Co. Ltd. ....	384141	Trueway (Canada) Inc. ....	687800
Stinson-O'keefe Ltd. ....	641684	Trussler Insurance Agency Inc. ....	429079
Stinson, yeung & Associates Inc. ....	709399	Turnelle Corporation .....	442788
Storm Seal Aluminum Limited .....	84241	Twenty-Four Carat Catalogues Inc. ....	597481
Strategic Planning Forum Inc. ....	547984	Tycoonery Inc. ....	680863
Stur Grav Inc. ....	684133	Unifeller Ontario Ltd. ....	420707
Style 2000 Furniture Ltd. ....	342387	United Compounding Inc. ....	677561
Stylex Graphics Ltd. ....	601511	United Workwear & Safety Shoes Inc. .	683778
Sumovi Investments Limited .....	683396	Upper Canada Equity Management Inc. .	682385
Sunstream Tan Inc. ....	680897	Urotek Inc. ....	542385
Supreme Cuisine Inc. ....	600397	Urquhart Lumber Limited .....	682228
Supreme Holding Corporation .....	682953	Uxbridge Sports & Supply Ltd. ....	454182
Surallah Investments Ltd. ....	636776	V.E.G. Farms Ltd. ....	678520
Surimor Inc. ....	679188	Vanier Heat and Frost Insulation Limited .....	294346
Swinemaster Inc. ....	601571	Vartanco Inc. ....	563221
Swiss Gastro Consultants Inc. ....	678500	Vast Holdings, Inc. ....	631771
Sylvia's Feminine Reducing Salons Inc. .	678803	Victoria Sharp Investments Inc. ....	683995
Symington Masonry Ltd. ....	489166	Video Cassette Canada Inc. ....	679957
Szivar Investments Corporation .....	682076	Villa Cleaners Inc. ....	681735
T. H. Southern Limited .....	246889	Vima Developments Ltd. ....	565697
T.M.C. Insulation Ltd. ....	465488	Vincent J. Reale Holdings Inc. ....	600509
T.N.T. Taxi Company Limited .....	682375	Vintage Courts Inc. ....	614555
Target Housewares Group Inc. ....	681660	Vinyltech Industries Ltd. ....	641851
Tatmacs Co. Limited .....	298324	Vittoria Children's Boutique Ltd. ....	677982
Telemarketing Specialties Inc. ....	691932	Vittorio's Osteria Inc. ....	414390
Tem-Plate Inc. ....	681470	W.I.A. Sports Ltd. ....	678253
Temulac Holdings Inc. ....	490271	Wahlah Tax Services Inc. ....	515021
Terra-Tory Investments Ltd. ....	423698	Walker Industrial Contractors Ltd. ....	509503
Terrace Bay Plymouth Chrysler Limited	539460	Wareide Investments Ltd. ....	312543
Terry Copeland Fisheries Incorporated .	261468	Wayer Boardsailing Canada Limited ...	653301
The Avant Guard Distribution Corporation .....	314134	Wellpoint Dewatering of Canada Limited .....	85891
The Beach Butler Inc. ....	416212	Wessel, Wessel & Howden Inc. ....	682744
The Finders Research Associates Inc. ...	563283	Westcor Kitchen & Supplies Inc. ....	663773
The Hoist Man Ltd. ....	678455	Westdale Estates (Oshawa) Limited .....	433111
The House of Computers Corp. ....	623136	Wgfi Construction Ltd. ....	681443
The Incredible Machine (Canada) Inc. .	639022		



Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
What's For Dessert? Limited .....	682238	510054 Ontario Limited .....	510054
Wilson & Turner Inc. ....	600618	510700 Ontario Limited .....	510700
Window Wand Inc. ....	676628	517490 Ontario Limited .....	517490
Wing Far Enterprises Inc. ....	682677	518368 Ontario Inc. ....	518368
Wing Nuts Restaurants Inc. ....	621571	518957 Ontario Inc. ....	518957
Wing Sing Restaurant Inc. ....	681475	519000 Ontario Limited .....	519000
Witbloom Investments Canada Limited	470556	521838 Ontario Ltd. ....	521838
Wolfie's Enterprises Limited .....	215277	524323 Ontario Limited .....	524323
World Commercial Euro Corp .....	682347	524896 Ontario Limited .....	524896
Worldwide Development Euro Corp ....	682337	525155 Ontario Inc. ....	525155
Wynford Energy Corp. ....	684039	525252 Ontario Limited .....	525252
Yuppie Puppies Inc. ....	636771	526754 Ontario Ltd. ....	526754
Yury Ltd. ....	311745	529847 Ontario Inc. ....	529847
Zees Restaurant Inc. ....	638103	531580 Ontario Inc. ....	531580
Zio Franco Foods Inc. ....	679913	538804 Ontario Limited .....	538804
146036 Ontario Limited .....	146036	539182 Ontario Inc. ....	539182
24 Karat Jewellery Limited .....	627788	541720 Ontario Inc. ....	541720
2440 Hurontario Street Apartments		541953 Ontario Limited .....	541953
Limited .....	681797	548960 Ontario Inc. ....	548960
247555 Investments Limited .....	247555	548967 Ontario Inc. ....	548967
259292 Holdings Limited .....	259292	548973 Ontario Inc. ....	548973
285758 Ontario Ltd. ....	285758	548977 Ontario Inc. ....	548977
3D Ceramic Designs Ltd. ....	526745	548978 Ontario Inc. ....	548978
310659 Ontario Inc. ....	310659	552571 Ontario Limited .....	552571
353156 Ontario Limited .....	353156	558109 Ontario Limited .....	558109
368787 Ontario Limited .....	368787	558266 Ontario Limited .....	558266
393871 Ontario Limited .....	393871	559035 Ontario Ltd. ....	559035
396160 Ontario Limited .....	396160	560266 Ontario Inc. ....	560266
412201 Ontario Limited .....	412201	562196 Ontario Limited .....	562196
422669 Ontario Limited .....	422669	562593 Ontario Limited .....	562593
423367 Ontario Limited .....	423367	562986 Ontario Limited .....	562986
426475 Ontario Limited .....	426475	563099 Ontario Ltd. ....	563099
426765 Ontario Inc. ....	426765	563757 Ontario Limited .....	563757
428270 Ontario Inc. ....	428270	564012 Ontario Inc. ....	564012
428374 Ontario Limited .....	428374	564877 Ontario Limited .....	564877
428393 Ontario Limited .....	428393	567274 Ontario Ltd. ....	567274
441655 Ontario Limited .....	441655	568066 Ontario Limited .....	568066
441918 Ontario Limited .....	441918	571276 Ontario Limited .....	571276
444552 Ontario Limited .....	444552	571998 Ontario Limited .....	571998
451242 Ontario Inc. ....	451242	572485 Ontario Ltd. ....	572485
455780 Ontario Inc. ....	455780	572735 Ontario Limited .....	572735
456465 Ontario Inc. ....	456465	578895 Ontario Inc. ....	578895
456555 Ontario Limited .....	456555	580142 Ontario Limited .....	580142
456739 Ontario Inc. ....	456739	589278 Ontario Inc. ....	589278
458511 Ontario Limited .....	458511	592980 Ontario Inc. ....	592980
458701 Ontario Limited .....	458701	594236 Ontario Inc. ....	594236
462657 Ontario Limited .....	462657	594297 Ontario Limited .....	594297
462692 Ontario Inc. ....	462692	595566 Ontario Inc. ....	595566
463293 Ontario Limited .....	463293	595610 Ontario Limited .....	595610
463329 Ontario Limited .....	463329	595790 Ontario Inc. ....	595790
463783 Ontario Limited .....	463783	596097 Ontario Limited .....	596097
469644 Ontario Limited .....	469644	596098 Ontario Limited .....	596098
482856 Ontario Limited .....	482856	596463 Ontario Inc. ....	596463
485008 Ontario Inc. ....	485008	596653 Ontario Limited .....	596653
485009 Ontario Inc. ....	485009	596864 Ontario Inc. ....	596864
486144 Ontario Inc. ....	486144	597063 Ontario Inc. ....	597063
488698 Ontario Inc. ....	488698	597220 Ontario Inc. ....	597220
491453 Ontario Limited .....	491453	597527 Ontario Limited .....	597527
491554 Ontario Limited .....	491554	598065 Ontario Inc. ....	598065
492895 Ontario Limited .....	492895	599030 Ontario Limited .....	599030
492992 Ontario Limited .....	492992	599098 Ontario Limited .....	599098
497073 Ontario Inc. ....	497073	599119 Ontario Inc. ....	599119
499168 Ontario Inc. ....	499168	600682 Ontario Limited .....	600682

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
600868 Ontario Inc.	600868	675949 Ontario Inc.	675949
604169 Ontario Limited	604169	675956 Ontario Ltd.	675956
608675 Ontario Limited	608675	675974 Ontario Inc.	675974
612705 Ontario Limited	612705	675983 Ontario Inc.	675983
617328 Ontario Ltd.	617328	676440 Ontario Limited	676440
619955 Ontario Limited	619955	676611 Ontario Inc.	676611
620860 Ontario Limited	620860	676636 Ontario Limited	676636
623932 Ontario Limited	623932	676698 Ontario Limited	676698
625558 Ontario Limited	625558	676713 Ontario Inc.	676713
627558 Ontario Inc.	627558	676735 Ontario Limited	676735
627636 Ontario Inc.	627636	676778 Ontario Limited	676778
628427 Ontario Limited	628427	677770 Ontario Limited	677770
630522 Ontario Ltd.	630522	678160 Ontario Ltd.	678160
631948 Ontario Inc.	631948	678269 Ontario Limited	678269
632654 Ontario Inc.	632654	678299 Ontario Limited	678299
632733 Ontario Limited	632733	678351 Ontario Inc.	678351
633773 Ontario Ltd.	633773	678357 Ontario Limited	678357
634252 Ontario Limited	634252	678501 Ontario Limited	678501
634465 Ontario Limited	634465	678581 Ontario Limited	678581
634493 Ontario Limited	634493	678834 Ontario Limited	678834
634557 Ontario Inc.	634557	678857 Ontario Inc.	678857
635851 Ontario Inc.	635851	678905 Ontario Limited	678905
637051 Ontario Inc.	637051	678972 Ontario Limited	678972
637190 Ontario Limited	637190	679064 Ontario Limited	679064
637197 Ontario Inc.	637197	679097 Ontario Limited	679097
637354 Ontario Inc.	637354	679408 Ontario Inc.	679408
637650 Ontario Limited	637650	679417 Ontario Limited	679417
637690 Ontario Limited	637690	679462 Ontario Limited	679462
637758 Ontario Limited	637758	679464 Ontario Limited	679464
637788 Ontario Limited	637788	679507 Ontario Limited	679507
639069 Ontario Inc.	639069	679508 Ontario Limited	679508
639611 Ontario Ltd.	639611	679522 Ontario Limited	679522
639689 Ontario Inc.	639689	679527 Ontario Limited	679527
640313 Ontario Limited	640313	679561 Ontario Limited	679561
640378 Ontario Limited	640378	679568 Ontario Inc.	679568
640863 Ontario Limited	640863	679588 Ontario Limited	679588
641717 Ontario Limited	641717	679602 Ontario Ltd.	679602
642034 Ontario Limited	642034	679612 Ontario Inc.	679612
642866 Ontario Ltd.	642866	679628 Ontario Inc.	679628
647237 Ontario Limited	647237	679633 Ontario Inc.	679633
651096 Ontario Ltd.	651096	679636 Ontario Ltd.	679636
655779 Ontario Limited	655779	679820 Ontario Limited	679820
656070 Ontario Inc.	656070	679822 Ontario Limited	679822
657457 Ontario Inc.	657457	679839 Ontario Limited	679839
657479 Ontario Limited	657479	679849 Ontario Inc.	679849
657867 Ontario Limited	657867	679878 Ontario Limited	679878
658377 Ontario Inc.	658377	679906 Ontario Limited	679906
661714 Ontario Inc.	661714	679910 Ontario Inc.	679910
663743 Ontario Limited	663743	679970 Ontario Inc.	679970
667424 Ontario Limited	667424	679972 Ontario Inc.	679972
670161 Ontario Inc.	670161	679973 Ontario Inc.	679973
670168 Ontario Inc.	670168	679974 Ontario Inc.	679974
670184 Ontario Limited	670184	679987 Ontario Limited	679987
670196 Ontario Limited	670196	680100 Ontario Inc.	680100
670458 Ontario Inc.	670458	680160 Ontario Inc.	680160
670459 Ontario Limited	670459	680173 Ontario Inc.	680173
670519 Ontario Inc.	670519	680182 Ontario Inc.	680182
670525 Ontario Inc.	670525	680381 Ontario Limited	680381
672502 Ontario Ltd.	672502	680382 Ontario Limited	680382
673153 Ontario Limited	673153	680895 Ontario Limited	680895
673565 Ontario Limited	673565	680960 Ontario Inc.	680960
673911 Ontario Limited	673911	681041 Ontario Ltd.	681041
675763 Ontario Inc.	675763	681207 Ontario Inc.	681207

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
681217 Ontario Inc. ....	681217	682663 Ontario Inc. ....	682663
681238 Ontario Limited ....	681238	682718 Ontario Limited ....	682718
681258 Ontario Inc. ....	681258	682727 Ontario Ltd. ....	682727
681266 Ontario Ltd. ....	681266	682728 Ontario Ltd. ....	682728
681269 Ontario Ltee ....	681269	682743 Ontario Ltd. ....	682743
681270 Ontario Inc. ....	681270	682766 Ontario Inc. ....	682766
681294 Ontario Inc. ....	681294	682769 Ontario Limited ....	682769
681312 Ontario Limited ....	681312	682792 Ontario Limited ....	682792
681440 Ontario Limited ....	681440	682796 Ontario Limited ....	682796
681479 Ontario Limited ....	681479	682799 Ontario Limited ....	682799
681503 Ontario Limited ....	681503	682812 Ontario Limited ....	682812
681510 Ontario Limited ....	681510	682813 Ontario Limited ....	682813
681544 Ontario Inc. ....	681544	682869 Ontario Inc. ....	682869
681546 Ontario Inc. ....	681546	682943 Ontario Limited ....	682943
681572 Ontario Inc. ....	681572	682962 Ontario Inc. ....	682962
681577 Ontario Limited ....	681577	682966 Ontario Limited ....	682966
681578 Ontario Limited ....	681578	683074 Ontario Limited ....	683074
681602 Ontario Inc. ....	681602	683204 Ontario Limited ....	683204
681615 Ontario Inc. ....	681615	683205 Ontario Inc. ....	683205
681621 Ontario Limited ....	681621	683217 Ontario Limited ....	683217
681641 Ontario Limited ....	681641	683240 Ontario Limited ....	683240
681645 Ontario Inc. ....	681645	683263 Ontario Inc. ....	683263
681653 Ontario Inc. ....	681653	683290 Ontario Inc. ....	683290
681705 Ontario Limited ....	681705	683298 Ontario Inc. ....	683298
681710 Ontario Limited ....	681710	683303 Ontario Inc. ....	683303
681711 Ontario Limited ....	681711	683339 Ontario Limited ....	683339
681763 Ontario Limited ....	681763	683373 Ontario Limited ....	683373
681783 Ontario Ltd. ....	681783	683604 Ontario Limited ....	683604
681798 Ontario Inc. ....	681798	683703 Ontario Ltd. ....	683703
682012 Ontario Limited ....	682012	683772 Ontario Ltd. ....	683772
682019 Ontario Inc. ....	682019	683774 Ontario Limited ....	683774
682031 Ontario Limited ....	682031	683805 Ontario Limited ....	683805
682052 Ontario Limited ....	682052	683869 Ontario Limited ....	683869
682084 Ontario Limited ....	682084	683963 Ontario Inc. ....	683963
682110 Ontario Limited ....	682110	684056 Ontario Ltd. ....	684056
682128 Ontario Limited ....	682128	684097 Ontario Limited ....	684097
682134 Ontario Limited ....	682134	684111 Ontario Limited ....	684111
682174 Ontario Ltd. ....	682174	684125 Ontario Ltd. ....	684125
682188 Ontario Limited ....	682188	684700 Ontario Limited ....	684700
682199 Ontario Ltd. ....	682199	685662 Ontario Limited ....	685662
682221 Ontario Limited ....	682221	687791 Ontario Inc. ....	687791
682277 Ontario Ltd. ....	682277	692181 Ontario Ltd. ....	692181
682343 Ontario Limited ....	682343	698863 Ontario Limited ....	698863
682350 Ontario Inc. ....	682350	701462 Ontario Limited ....	701462
682352 Ontario Limited ....	682352	704079 Ontario Inc. ....	704079
682359 Ontario Limited ....	682359	712280 Ontario Limited ....	712280
682575 Ontario Limited ....	682575		
682603 Ontario Limited ....	682603		
682609 Ontario Limited ....	682609		
682646 Ontario Inc. ....	682646		

33/90  
DIANE S. NAGEL,  
Director, Companies Branch.



## Marriage Act/Loi sur le mariage

CERTIFICATES OF TEMPORARY REGISTRATION as persons authorized to solemnize marriage in Ontario have been issued to the following:

LES CERTIFICATS D'ENREGISTREMENT TEMPORAIRE autorisant à célébrer des mariages en Ontario ont été délivrés à :

Paul N. Duval, Red Deer, Alberta; Rev. Andras-Czece Springer, Buffalo, NY, U.S.A.; Rev. David G. Spiece, Columbus, GA, U.S.A.; Minister Martyn R. Crabtree, Kelvington, Saskatchewan; Rev. Nello Warren Romagnoli, Guysborough County, Nova Scotia; Priest Manuel David Borg, Wichita, Kansas, U.S.A.; Rev. Alexander Rapson, Sarnia, Ontario; Pastor David W. Brockopp, Twin Valley, MN, U.S.A.; Elder Wayne Merlin Trainor, Sault Ste. Marie, Ontario; Priest Robert Foliot, Winnipeg, Manitoba; Rev. Jose Oliveira, Lisbon; Lawrence James Baird, Orange, CA, U.S.A.; Leo D. Cameron, Delta, British Columbia; Rev. Donald D. Watt, Ardrossan, Alberta; Rev. Jean Brassard, St-Leonard de Portneuf, Quebec; Rev. Raouf Najjar, Amman, Jordan; Rev. E. Ellen Wilson, Halifax, Nova Scotia; Captain Edward E. Call, Liverpool, Nova Scotia; Rev. Peter Brouwer, Burnaby, British Columbia; Rev. Ronald Osmond, Surrey, British Columbia; Rev. Joseph Toole, Calgary, Alberta; Rev. Joseph Ellis, Calgary, Alberta; Rabbi Garry A. Loeb, Monroe, NY; Rev. James McGonagle, Co. Derry, Northern Ireland; Rev. James G. Crooks, Bedford, Nova Scotia; Rev. Albert R. LeMay, Montreal, Quebec; Rev. Ronald Griffin, Saskatoon, Saskatchewan; Pretre Gilbert P. Petitpas, Field, Ontario; Rev. Stephen D. Kosinski, Hammond, IN, U.S.A.; Rev. Richard I. Preis, Edina, Manitoba; Rev. Gilles LaBarre, Nicolet, Quebec; Elder James W. Somers, Regina, Saskatchewan; Rev. W. Paul Derry, Sept-Iles, Quebec; Rev. K. Ian MacDonald, Winnipeg, Manitoba; Rev. Isaie G. Blanchette, The Pas, Manitoba; Rev. Alain Chung, Aylmer, Quebec; Father Paul J. Lundrigan, St. John's, Newfoundland; Rev. Robert McGraw, Dalhousie, New Brunswick; Rev. Jacob Barkin, Pompano Beach, FL; Rev. Charles Cook, Thompson, Manitoba; Rev. Leo LaBerge, Ottawa, Ontario.

CERTIFICATES OF PERMANENT REGISTRATION as persons authorized to solemnize marriage in Ontario have been issued to the following:

LES CERTIFICATS D'ENREGISTREMENT PERMANENT autorisant à célébrer des mariages en Ontario ont été délivrés à :

Rev. Hollis R. Hiscock, Willowdale; Wayne D. Fulton, Iroquois Falls; Carmel Borg, Emeryville; Rev. Ronald Barnum, Chatham; Rev. Robert W. Colburn, Toronto; Rev. Murray D. Smith, Thessalon; Rev. Timothy G. Harrison, Kingston; Rev. Elizabeth A. Morley, Barrie; Rev. Dwayne E. Christensen, Windsor; Rev. Robert G. Skelding, London; Rev. Henri Du Halgouet, Gloucester; Rev. Paul N. Belhumeur, Windsor; Mohamed R. Ishak, Ottawa; Rev. Giovanna Cieli, Toronto;

Father Michel M. J. Brochu, Penetanguishene; Pastor Nancy O. E. Moor, Chatham; Elder Humphrey C. Beaudin, Little Current; Priest Henry Jess Jr. Bates, Sault Ste. Marie; Priest Madeleine Rosella Charlton, Sheguandah; Priest Norman Patrick Roberts, Don Mills; Rev. Kevin Michael Dowling, Lindsay; William MacGregor, Belleville; Ram-Khelawan Persaud, Markham; Seung-Jin Lim, Scarborough; T. Kevin Dingwell, Masset, British Columbia; Nancy Irene Beauchamp, Kanata; Eileen M. B. Hepplewhite, Nepean; Elder Harry M. Hitchon, Guelph; Rev. Michael Burke, Toronto; Raj L. Hathiramani, Hamilton-Wentworth; Rev. Marco Testa, Newmarket; Rev. Diego Maratta, Woodbridge; Rev. Cecil Niel Charles, Holstein; Edward Bruce McLean, Garson; Rev. Norman George Levesque, Vanier; Elder Keith Gordon Stoner, London; Rev. Darren Liepold, Atikokan; Rev. Richard Chung-sik Choe, Woodbridge; Captain Judith Mahlon Power, Oakville; Captain Robin Diane Cory, Trenton; Captain Bruce Arthur Power, Oakville; Bishop S. A. Morrison, Scarborough; Rev. Dawn E. M. Henderson, Bruce Mines; Rev. Elizabeth A. Appleyard, Kitchener; Rev. Robert G. Dalglish, Burlington; Captain George P. Evans, Thunder Bay; Rev. Derek G. Smith, Ottawa; Rev. Victor Jamieson, Mississauga; Rev. Donald H. Hull, Windsor; Rev. Kenneth C. Jones, Keswick; Rev. Balchand Persaud, Toronto; Rev. Joseph Sahadat, Kapuskasing; Rev. Raymond A. Humphries, Toronto; Rev. Grant W. Dillenbeck, Nepean; Rev. William G. Svab, Gloucester; Rev. Gregory G. Curtin, Ottawa; Rev. James D. Scheer, Ottawa; Rev. John B. O'Brien, Ottawa; Rev. George McCarthy, Ottawa; Rev. Edward J. Webster, Gloucester; Rev. James J. Heffernan, Ottawa; Rev. Moran F. McMahon, Orleans; Elder A. Jean Shaw, Sault Ste. Marie; Captain Lewis H. Babe, Pembroke; Rev. Arthur R. Bartlett, Lindsay; Robert L. Probert, Combermere; Rev. Gordon E. Williams, Orleans; Rev. Gaetane G. Lecours, Oshawa; Rev. Joseph-elie Larouche, Cornwall; Rev. Raymond Dale Finch, Belleville; Bishop Terry L. Rollins, Orleans; Rev. Kenneth R. Yinger, Mississauga; Rev. Robert R. Wagner, Hamilton (Re-reg.); James A. Payton, Renfrew (Re-reg.); Rev. Denis Gibson, Brampton (Re-reg.); Rev. Peter Rajic, Toronto (Re-reg.); Rev. Joseph C. Mather, Scarborough; Rev. G. Wayne Flowers, Kitchener; Lieutenant Danny J. Broome, St. Catharines; Rev. Donald M. Thomas, Milverton; Rev. John R. Smallman, Tiverton; Captain Franklin A. Johnson, Gananoque; Rev. Neal A. Mosher, Georgetown; Rev. Kenneth M. Clarke, Scarborough; Rev. Marjorie E. Smith, Barrie; Rev. Molly B. Thomson, Unionville; Rev. Roger J. Harmsworth, London; Rev. Pedro V. Arana, Cornwall; Rev. Michael R. D'Cruz, Toronto; Rev. Evaristo Sanccica, Etobicoke; Rev. Ian McWhinnie, Etobicoke; Rev. James D. Reeb, Leamington; Gregory L. Klein, Niagara Falls; Mary A. Vipond, King City; Rev. Doo Je Kim, Toronto; Rev. Neil A. Mittelstaedt, Mississauga; Rev. Michelle F. Sim, Oakville; Rev. Dalène C. Rogers, Kitchener; Rev. Carl F. Verge, Peterborough (Re-reg.); Rev. Blanche G. Short, Ottawa;

Rev. Barclay A. Mayo, Hornell Heights; Rev. Sophie A. Haslip, Kent; Rev. Barbara R. Dart, Kitchener; Rev. Johnny D. Bergman, Leamington; Pastor Ernest J. Cox, Winchester; Rev. Allan C. Soifer, Nepean; Pastor John M. Caudle, Oshawa; Pretre Andre Desjardins, Ville-Marie, Quebec; Captain Roy G. Randell, Nepean; Rev. R. James Bekkema, Kingston; Rev. David James Price, Ottawa (Re-reg.); Rev. Amy I. Price, Ottawa (Re-reg.); Rev. Alan E. Roberts, Midland; Elder Ernest J. Sarlo, Sault Ste. Marie; Envoy Shirley M. Gleadall, Dundas; Envoy Brian Gleadall, Dundas; Lieutenant James A. Latour, Oshawa; Rev. Brenda S. Bell, Grand Valley; Rev. Russell M. Wardell, Kenora; Rev. Brian W. Moss, Beachburg (Re-reg.); Rev. J. George Bondy, Windsor (Re-reg.); Rev. Paul W. Yuke, Ajax (Re-reg.); Rev. Catherine A. Stewart-Kroeker, Hamilton; Rev. Foster Freed, Hornepayne; Rev. William Reagen, Windsor; Rev. George Frederick Schmidt, Tillsonburg; Rev. Richard Ciaramitaro, Windsor; Rev. James E. P. White, Sarnia; Rev. Stephen P. H. Fleming, Waterloo; Rev. Andrew K. Koornstra, Waterloo; Rev. Faith Tengenagel, Newmarket; Rev. Kees Tengenagel, Newmarket; Rev. Gerald J. Vaillancourt, Timmins; Rev. Thomas P. Needham, Trenton; Rev. Murray Phelan, Niagara Falls; Elder Gordon E. Burbidge, Listowel; Rev. Frederick Borozny, St. Catharines; Rev. Deborah P. Borozny, St. Catharines; Rev. Simon Van Groningen, Drayton; Rev. David H. Campbell, Owen Sound; Rev. Philip H. Watson, Mississauga; Rev. James H. Lee, Ancaster; Rev. Christian M. Kent, Hamilton; Rev. Art Hystek, Chatham.

NOTICES OF CANCELLATION OF REGISTRATION as person authorized to solemnize marriage in Ontario have been issued to the following:

LES AVIS DE RADIATION de personnes autorisées à célébrer des mariages en Ontario ont été envoyés à :

Rev. Lester B. Wiseman, Kingston; John Francis Coughlan, (Deceased); William J. McGuigan, (Deceased); James Arthur Jackson, (Deceased); Gerald C. Cornell, (Deceased); Chester Szymanski, (Deceased); Lee Begg, (Deceased); Harold Baldson, (Deceased); F. Albert Luck, (Deceased); J. Frank Ward, (Deceased); Leonard O'Neil, (Deceased); Lloyd Pierce, (Deceased); Ray Costerus, (Deceased); Harold E. Allaby, (Deceased); Kenneth Morrison, (Deceased); Francis Amery, (Deceased); Kenneth MacDonald, (Deceased); Joseph McDowell, (Deceased); Edgar Bailey; James K. Lewis; John Weiler; R. Grant Woodcock; Donald Hill; Daniel Lundy; Peter Hall; John A. Farrington, Sudbury; Rev. Jacob Bergen, Stoney Creek; Rev. Alex Lubbers, White River; George B. Collins, Brantford; Bishop Lorne A. Merrett, Gloucester; Lieutenant Keith Pike, Essex; Kevin F. Anderson; Dennis M. Andrews; Joseph D. April; David L. Armstrong; Edward A. Bader; John L. Boscoe; Michael Paul Brand; John A. Burke; Albert F. Butler; Lawrence J. Carney; Kevin M. Caspersen; Manuel J. Chirco; Frederick L. Clay; Marc Vincent Colelli; William E. Coughlin; Hugh

J. Curran; Roger F. Debilly; Kenneth J. Decker; Robert J. Duggan; Norman J. Fitzpatrick; James T. Forestell; Patrick J. Gallagher; Harold B. Gardner; Patrick J. Gorman; Ronald J. Griffin; Robert B. Hale; Thomas J. Hanrahan; Edward R. Heidt; Marco A. Hernandez; Robert K. Holmes; Brian D. Inglis; Robert M. Kasun; Dennis J. Kauffman; James J. Kelly; Gordon F. Kennedy; George W. Kosicki; Daniel G. MacDonald; John F. Madden; John B. Malo; William H. Marshall; Thomas J. McReavy; Joseph C. Mitrano; Thomas F. Mohan; Peter K. Mosteller; George D. O'Gorman; Roy J. Oggero; Raymond Paramo; Joseph G. Penny; Charles D. Porter; Alexander L. Reilly; Edward A. Roberts; Thomas M. Rosica; Denis M. Rowan; Anthony J. Ruth; Richard J. Schiefen; Timothy M. Scott; Robert J. Seguin; Francis M. Sheahan; George E. Silvester; Peter J. Swan; James V. Thompson; Joseph A. Trovato; Gordon W. Walker; John F. Ware; Clarence E. Watrin; Charles R. Kemp, St. Catharines; Robert J. Barringer, Toronto; Rev. John D. Williams, (Deceased); Wallace Murray, London; Michael E. Peacefull, Brantford; Kelly James Kinneard, Thunder Bay; Raphael A. Glofcheski; Maurice Labrie; Joseph Borg; Joseph T. Dabrowski; John E. Hunt; Edward B. Hall; Reginald H. McKenna; Michel J. Allard; Joseph L. Berard; Lothar Maurer; Joseph L. Charlebois; Neil J. McMillan; Joseph A. Phaneuf; Joseph R. Beauvoles; Pierre Doyon; Henri O. Guy; Joseph G. Gagnon; Robert J. Chisholm; Rev. Ralph E. MacKenzie.

CERTIFICATES OF REGISTRATION as persons authorized to perform marriage in Ontario have been issued to the following Justices of the Peace:

LES CERTIFICATS D'ENREGISTREMENT autorisant à célébrer des mariages en Ontario ont été délivrés aux juges de paix suivants :

Ms. Marjorie A. Pasloski, Kenora; Ms. Helen Gale, Sarnia.

CAROLYNN LA CHAPELLE,  
(4506) 33 Deputy Registrar General.

## Change of Name Act Loi sur le changement de nom

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending July 27th, 1990. The listing below shows the previous name followed by the new name.

AVIS EST PAR LA PRÉSENTE DONNÉ que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 27 juillet 1990. La liste ci-dessous indique les anciens noms suivis par les nouveaux noms.

Acharya, Manjula — Rice, Manjula.  
Agnelli, John — Scott, James, Carson.  
Ahl, Jolene, Carol, Rose — Filion, Jolene, Carol, Rose.  
Allen, Linda, Theresa — Lourenssen, Linda, Theresa.  
Allen, Nina, Beth — Tavares, Nina, Beth.



- Anderson, Natasha, Jo — Hill, Natasha, Jo.  
 Andrews, Victoria, Lynn — Forbes, Victoria, Lynn.  
 Anstey, Michael, Keith — Clamp, Michael, Keith.  
 Appleton, Jeffery, David — Paradis Caron, Dorian, Jeffery.  
 Arkin, Kathi, Jane — Spencer, Kathi, Jane.  
 Armstrong, Marilyn, Susan — Robertson, Marilyn, Susan.  
 Arsenaault, David, William, Joseph — Morrison, David, William, Joseph.  
 Arsenaault, Marylynn, Victoria — Morrison, Marylynn, Victoria.  
 Athoe, Barbara, Anne — Grisafi, Barbara, Anne.  
 Atkins, Lisa, Marie — MacElwee, Lisa, Marie.  
 Aubrey, Lillian, Bearnadet — Parker, Lillian, Bearnadet.  
 Bailey, Rosalie, Selma — Bowman, Rosalie, Selma.  
 Baker, Brenda, Joyce — Baker, Bronwyn, Julia.  
 Baker, James, John — Dixon, James, John.  
 Bakhtiariasl, Azardokht — Zadeh, Azar.  
 Ball, Jennifer, Lynn — Roberts, Jennifer, Lynn.  
 Balraju, Girja, Mani — Balraju, Linda.  
 Bamber, Sherry, Ann — Deline, Sherry, Ann.  
 Barros, Karyna — Abrantes, Karyna.  
 Bartha, Susan, Rose — Long, Susan, Rose.  
 Bathe, Janet, Patricia — Schwichtenberg, Janet, Patricia.  
 Bechard, Tracy, Anne — Edwards, Tracy, Anne.  
 Benn, Gay, Lynne — Magrath, Gay, Lynne.  
 Bodoni, Magdalena — McNally, Magdalena.  
 Boismier, Deandra, Dawn — Sinclair, Deandra, Dawn.  
 Bolliger, Teresa, Maureen — Mast, Teresa, Maureen.  
 Boudreault, Deborah, Lee — Haskim, Deborah, Lee.  
 Bourget, Michelle, Maria — Gregoire, Michelle, Maria.  
 Bradshaw, Agnes, Julia — Nunes, Agnes, Julia.  
 Bradt, Jamie, Billy, Charles — Graziano, Jamie, Billy.  
 Bremner, Cynthia, Leah — Babcock, Cynthia, Leah.  
 Bretzke, Klaus, Eberhard — Bretzke, Claude, Eberhard.  
 Brockelbank, Marjorie, Jane — Brock, Marjorie, Jane.  
 Brown, Audrey, Loveday — Lindo, Audrey, Loveday.  
 Brown, Janet, Amie, Rose — McKee, Janet, Amie, Rose.  
 Budzisz, Marianna, Krystyna — Grela, Marianna, Krystyna.  
 Burke, Cynthia, Louise, Marie — Siemens, Cynthia, Louise, Marie.  
 Burley, Madaline, Leota — Stevens, Madaline, Leota.  
 Campbell, Tracey, Lynn — Myers, Tracey, Lynn.  
 Carpin, Tammy, Elizabeth, Anne — Calkins, Tammy, Elizabeth, Anne.  
 Cavlovic, Marianne — Henderson, Marianne.  
 Chamberlain, Patricia, Darlene — Chamberlain-Kennedy, Patricia, Darlene.  
 Chard, Jennifer, Joy, Nemes — Smith, Patricia, Joy, Nemes.  
 Charlton, Sandra, Alterine — Bent, Sandra, Alterine.  
 Chia, Esther — Au, Esther.  
 Chipman, Susan, Mary — Vandewiel, Susan, Mary.  
 Chung, Khai, An — Chung, Mike.  
 Chung, Khai, Binh — Chung, David.  
 Chung, My, Phan — Chung, Joanne.  
 Chung, My, Thanh — Chung, Amy.  
 Chung, Ngoc, Hue — Chung, Julie.  
 Chung, Nguyen — Chung, Raymond.  
 Cicchetti, Maria, Michele — Lindemann, Maria, Michele.  
 Clifford, Nancy, Joanne — Larocque, Nancy, Joanne.  
 Cohn, Annalee, Fay — Richler, Annalee, Fay.  
 Coles, Brenda, Susan — Fraser, Brenda, Susan.  
 Collett, Tracey, Victoria — Collett-Boomhour, Tracey, Victoria.  
 Cook, Penny, Lynn — Loyst, Penny, Lynn.  
 Coolidge, Patricia, Anne — McCulloch, Patricia, Anne.  
 Coolman, Bhanumatee, Sadia — Jagroop, Bhanumatee, Sadia.  
 Coolman, Shanta, Yumatie — Ganesh, Shanta, Yumatie.  
 Cordeiro Medeiros, Maria, Dolores — Henriques, Maria, Dolores.  
 Cote, Cindy, Lou, Yvonne — Scott, Cindy, Lou, Yvonne.  
 Creamer, Tricia, Leigh — O'Hearn, Tricia, Leigh.  
 Cronier, Paul, Raoul, Clarence — Bernard, Paul, Raoul, Clarence.  
 Cross, Lesley, Robyn — Germann, Lesley, Robyn.  
 Crossley, Cindy, Anne — Plain, Cindy, Anne.  
 Crossman, Linda, Lou, Ada — McKinnon, Linda, Lou, Ada.  
 Dasilva, Anthony, Jose — Da Silva, Anthony, Jose, Faria, Ferra.  
 Davey, Diana, Lynn — Thistle, Diana, Lynn.  
 Davis, Karen, Ann — Beatty, Karen, Ann.  
 Davis, Richard, Laverne — Mutton, Joseph, Fredrick.  
 Davis, Yvonne, Sylvia — Grffioen, Yvonne, Sylvia.  
 De Freitas, Fatima, Maria — Oton, Fatima, Maria.  
 De Vries, Nancy, Sally — Darlington, Nancy, Sally.  
 Denison, Diane, Margaret — Millar, Diane, Margaret.  
 Dicks, Andrew, Ronald — Dicks-Reich, Andrew, Ronald.  
 Dickson, Allan, Noel — Dickson, Allan, Bret.  
 Digby, Lynn, Muriel — Channon, Lynn, Muriel.  
 Dimitrievski, Mile — Dimitrovski, Michael.  
 Ditoro, Fausta — Payne, Fausta.  
 Dombroskie, Catherine, Ann — Murray, Catherine, Ann.  
 Drew-Brook, Sarah, Ruth — Renaud, Sarah, Ruth.  
 Dye, Wendy, Frances — Marsh, Wendy, Frances.  
 Dykstra, Brenda, Joy — Bratt, Brenda, Joy.  
 Dymny, Lidia — Molin, Lidia.  
 Earle, Kathryn, Lynn — Whalen, Kathryn, Lynn.



- Easton, Connie, Eileen — Schmidt, Connie, Eileen.
- Edgar, Alison, Joan — Edgar Bertoia, Alison, Joan.
- Eskenazi, Ronit — Eskenazi, Hanna.
- Fallon, Bronislava, Martina — Melanson, Bronislava, Martina.
- Fallon, Byron, Lloyd — Melanson, Byron, Lloyd.
- Falzon, Mary, Rose — Walden, Mary, Rose.
- Fik, Janina — Holowko, Janina.
- Fitchett, Tracy, Lee — Ryckman, Tracy, Lee.
- Forrester, Erica, Kendra — Ross, Erica, Kendra.
- Forrester, Jennifer, Eleanor-Joan — Ross, Jennifer, Eleanor.
- Fox, Brent, Jeffrey — Fox-MacLean, Brent, Jeffrey.
- Franklin, Jennifer, Angela — Hofhuis, Jennifer, Angela.
- Franklin, Josephina, Geradina, Elisabeth, Maria — Hofhuis, Josephina, Geradina, Elisabeth, Maria.
- Fyfe, Janet, Maureen — Lyman, Janet, Maureen.
- Gajadhar, Jassiran — Singh, Jassiran, Karim.
- Gajadhar, Nadia, Lakshmi — Singh, Nadia.
- Ganpatt, Cassandra, Nirmala — Bullock, Cassandra, Nirmala.
- Garcia, Karla, Patricia, Yolanda, Enniquez — Lopez, Karla, Patricia.
- Gauthier, Lise, Renee, Marie — Roberston, Lise, Renee, Marie.
- Gibb, Marjory, Orr — Faion, Marjory, Orr.
- Giust, Sandra — Giust-Echlin, Sandra.
- Gobinsingh, Vidia, Beverly — Dickson, Vidia, Beverly.
- Golding, Angela, Annetta — Hyland, Angela, Annetta.
- Goodreau, William, Reiny — Gaudreau, William, Rene.
- Gordon, Jannette — Gordon-Anderson, Jannette.
- Gould, Susan, Elizabeth — Maltman, Susan, Elizabeth.
- Grant, Jill — Maltby, Jill.
- Gratz, Edith — Stogre, Edith.
- Green, Gary, William — Van De Walle, Jeremiah, William.
- Green, Georgia, Ann — Bailey, Georgia, Ann.
- Grey, Patricia, Susan — Stuart, Patricia, Susan.
- Grnca, Violeta — Nemec, Violeta.
- Grossteiner, Maria, Anne — Barich, Maria, Anne.
- Guevara Viales, Maria, Marlene — Castro, Maria, Marlene.
- Guzelak, Zenia, Mary — Sopuch, Zenia, Mary.
- Habibollahzadeh, Hooshang — Zadeh, Hooshang.
- Habibollahzadeh, Saba — Zadeh, Saba.
- Habibollahzadeh, Sam — Zadeh, Sam.
- Hadfield, Lee-Ann, Joyce — Jules, Lee-Ann, Joyce.
- Hakien, Sheila — Assouline, Sheila.
- Hamilton, Victoria, Jean — Van Hee, Victoria, Jean.
- Hanke, Shrimati, Dhanashwari, Devi — Hanke, Preeya, Sarah.
- Hassad, Ilana — Scott, Ilana.
- Haughton, Bonnie, Louise — Montgomery, Bonnie, Louise.
- Helm, Diana, Frances — Bast, Diana, Frances.
- Henriques-Janes, Clarice, Augusta, Irene — Morgis-Janes, Clarice, Augusta.
- Hickling, Valerie, Fay — Laws, Valerie, Fay.
- Hilborn, Nancy, Mary — Pulver, Nancy, Mary.
- Hird, Francis, Bonita — Stewart, Francis, Bonita.
- Ho, Chak-Kin — Ho, Jackin, Chak-Kin.
- Ho, Yuen, So, Chan — Ho, Sue, Yuen-So.
- Hoekstra, Mildred, Florence — Hoekstra, Mickie, Florence.
- Hofman, Gerardus, Marinus — Hofman, Gerald, Mitchell.
- Hoto, Aimee, Kathleen — Minor, Aimee, Kathleen.
- Hoto, Beverly, Joanne — Minor, Beverly, Joanne.
- Hutchison, Rosanne, Marie — Fraser, Rosanne, Marie.
- Hyatt, Janet, Mary — Minaker, Janet, Mary.
- Ikeda, Naomi, Ellen — Jezioranski, Naomi, Ellen.
- Irvine, Gillian, Kelly — Van Marrum, Gillian, Kelly.
- James, Joan, Susan — Tanner, Joan, Susan.
- James, Kelly, Lynne — Townsend, Kelly, Lynne.
- Janzen, Lynda, Margaret — Durkin, Lynda, Margaret.
- Jarrett, Jacqueline, Ann — Waechter, Jacqueline, Ann.
- Jaworska, Lucyna, Teresa — Plocinski, Lucyna, Teresa.
- Joyce, Beate, Elisabeth, Hedwig — Story, Beate, Elisabeth, Hedwig.
- Kaplanova, Anna — Kaplan, Anna.
- Karuppiah, Sosea — Mulley, Sosea.
- Kazmierczak, Dorota, Ewa — Bogacki, Dorota, Ewa.
- Kentish, Dalmain, Claxton — Jackson, Dalmain, Claxton.
- Kerkhoven, Elizabeth, Mary — Spooner, Elizabeth, Mary.
- Kirouac, Lauren, Anita — Lamont, Lauren, Anita.
- Kofoed, Christine — Turner, Christine.
- Koyama, Susan, Sumiko — Impey, Susan, Sumiko.
- Kukemueller, Diane — Adam, Diane.
- Kwan, Mee-Fung — Ng, Mee-Fung.
- Laamanen, Anna, Melissa — Kelly, Anna, Melissa.
- Lacroix, Lorrie, Ann — McDougall, Lorrie, Ann.
- Lam, Corina, Mei, Ling — Tani, Corina, Mei, Ling.
- Lambert, Michelle, Dawn — Meikle, Michelle, Dawn.
- Lambruschini, Nancy, Lily — Stockdale, Nancy, Lily.
- Landrigan, Johanne — Diotte, Johanne.
- Large, Janet, Sheila — Burgess, Janet, Sheila.
- Laroche, Catherine, Paula — Lacroix, Catherine, Paula.
- Laverty, Kim, Vera, Mary — Perrier, Kim, Vera, Mary.
- Lavigne, Marie, Claudette, Lisette — Menotti, Marie, Claudette, Lisette.
- Lavigueur, John, Richard, Alan — Lavigor, John, Richard, Alan.
- Laviolette, Norman, Abraam — Davidson, Norman, Abraam.
- Le Couvie, Marie, Constance, Florence — St Louis, Marie, Constance, Florence.

- Lee, Chi, Ho — Lee, Wilson, Chi, Ho.  
 Lee, Wai, Yin — Lam, Wai, Yin.  
 Lelievre, Marla, Caron — Joyce, Marla, Caron.  
 Lemieux, Jean, Louis, Serge, Erik — Panthera, Rik, Eire.  
 Lendrum, Lee-Ann, Louise — Blondeau, Lee-Ann, Louise.  
 Lichti, Reginald, Percy — Bender, Reginald, Percy.  
 Lloyd, Susan, Anne — De Forest, Susan, Anne.  
 Locke, Susan, Jean — Delicata, Susan, Jean.  
 Ly, A-Hoy — Lee, Jimmy.  
 Ly, Nam — Lee, Nam.  
 Ly, Oy, Kheng — Lee, Katie.  
 Ly, Teng-Hoy — Lee, Patrick.  
 Ly, Xao, Kheng — Lee, Susan.  
 Ly, Yin-Hoy — Lee, Brian.  
 Ly, Yok, Yeng — Lee, Yok, Yeng.  
 Ly, Yuy, Hoy — Lee, Yuh.  
 Lyman, Joanne, Catherine — Powell, Joanne, Catherine.  
 Mannen, Susan, Lynn — McClay, Susan, Lynn.  
 Marinucci, Anna — D'Amario, Anna.  
 Marsh, Gregory, Paul — Malley, Gregory, Paul.  
 Martyn, Joanne, Marie — Kirkham, Joanne, Marie.  
 Mason, Lori — Lee, Lori.  
 McDevitt, Shelley, Ann — Wilson, Shelley, Ann.  
 McIntee, Robert, Wesley, Earl — Minor, Robert, Wesley, Earl.  
 McLennan, Marie, Therese, Carmel, Lynn — De Haan, Marie, Therese, Carmel, Lynn.  
 McLean, Carol-Lee — Dobson, Carol-Lee.  
 McNabb, Elizabeth, Mary — Attrux, Elizabeth, Mary.  
 McNairn, Judith, Ann — McTaggart, Judith, Ann.  
 Mears, Melody, Jon, Cleopatra — Hill, Melody, Cleopatra.  
 Meier, Vera, Christina — Joch, Vera, Christina.  
 Mendes, Sandra, Leonor, Baioa, Vaz Pereira — McClure, Sandra, Leonor, Baioa, Vaz, Pereira.  
 Merkley, Brian, Leonard — Viscount, Brian, Roland.  
 Mesquita, Florentina, Jorge — Lopes, Florentina, Jorge.  
 Mewhiney, Kimberly, Anne — Nicklasson, Kimberly, Anne.  
 Miedema, Elizabeth, Anne — Reynolds, Elizabeth, Anne.  
 Miller, Lori, Elizabeth — Miller-Wells, Lori, Elizabeth.  
 Milner, Patrick, William — Riley, Ken.  
 Milnes, Sarah, Helen — Jacobs, Sarah, Helen.  
 Mochan, Karin — Carberry, Karin.  
 Moher, Kathlyn, Teresa — Schoon, Kathlyn, Teresa.  
 Mol, Emilia — Mol-Misri, Emilia.  
 Molenaar, April, Elizabeth — Spencer, April, Elizabeth.  
 Monroe, Pamela, Maxine — Pols, Pamela, Maxine.  
 Montesano, Ivy, Lee — Medwid, Ivy, Lee.  
 Moore, Hyacinth, Elizabeth — Pierre, Hyacinth, Elizabeth.  
 Moore, Lisa, Anne — McNamee, Lisa, Anne.  
 Morden, Catherine, Jean — Smalling, Catherine, Jean.  
 Morvay, Corey, James — Elsing, Adam, Corey.  
 Morvay, Jessica, Ashley — Elsing, Ashley, Jessica.  
 Mossey, Marion, Michaeline — Mossey, Marianne, Michaeline.  
 Moxon, Randa, Lorraine — Lattanville, Randa, Lorraine.  
 Muller, Patrick, Peter — Tryon, Patrick, Peter.  
 Murdock, Michele, Elizabeth — Burns, Michele, Elizabeth.  
 Muthiah, Ranjithamalar — Krishnanandan, Ranjithamalar.  
 Mycroft, Melody, Marie — Mycroft, Melodia, Marie.  
 Nadarajah, Nanthini — Sivapatham, Nanthini.  
 Nastaj, Agnieszka — Czapiga, Agnes.  
 Nestorowich, James, Melvin — Nestor, James, Melvin.  
 Newsome, Christina, Elizabeth, Paige — Imola, Christina, Elizabeth, Paige.  
 Nguyen, Cao, Hung — Phan, Cao, Hung.  
 Nobrega, Goretti — De Frias, Goretti.  
 Nolet, Josee, Anne, Lydia — Buck, Josee, Anne, Lydia.  
 Nowlan, Patricia, Ann — Smith, Patricia, Ann.  
 O'Bomsawin, Carol-Anne, Marilyn — O'Malley, Carol-Anne, Marilyn.  
 Orellana, Fluvia, Amparo, Carias — Aguilar, Fluvia, Amparo, Carias.  
 Pacheco, Lucia, Fatima, Damasio — Pacheco Pimentel, Lucia, Fatima, Damasio.  
 Panczyk, Kimberley, Anne — Gibson, Kimberley, Anne.  
 Panduro-Hansen, Stefanie, Maria — Edmonds, Stefanie, Maria.  
 Paquette, Yolanda, Lynn — Luesink, Yolanda, Lynn.  
 Parent, Estelle, Melodie — Brazeau, Estelle, Melodie.  
 Pahl, Angela, Marie — Pahl, Angela, Marie.  
 Paul, Lynette — Ceres, Lynette.  
 Pauwels, Sandra, Yvonne — Sinclair, Sandra, Yvonne.  
 Pearson, Kathleen, Jeanette — Johnson, Kathleen, Jeanette.  
 Peckover, Heather, Mae — West, Heather, Mae.  
 Penfound, Teri, Elizabeth — Landry, Teri, Elizabeth.  
 Pettit, Carol, May — Catt, Carol, May.  
 Petty, Doris, Edna, Mae — Demille, Doris, Edna, Mae.  
 Pflanz, Barbara, Lynn — Moat, Barbara, Lynn.  
 Phillips, Sandra, Freda — Osborne, Sandra, Freda.  
 Pilon, Donna, Lynn, Marie — Primeau, Donna, Lynn, Marie.  
 Polak, Sandra, Jane — Charlton, Sandra, Jane.  
 Potvin, Joy, Mona — Wirta, Joy, Mona.  
 Pretty, Donna, Marie — Rowsell, Donna, Marie.  
 Puckett, Jeanne, Marie, Olive — Cable, Jeanne, Marie, Olive.  
 Purcell, Judy, Ann — Dempsey, Judy, Ann.  
 Quinn, Antoinette, Ernestina — Noyce, Antoinette, Ernestina.  
 Racine, Marilyn, Lois — Peterson, Marilyn, Lois.  
 Rahaman, Fareeda — Rahaman-Taunt, Fareeda.

- Ramkissoon, Roxanne, Marsha, Jacob — Rjacob, Roxanne, Shavonne.
- Rampersaud, Doreen — Harinandan, Doreen.
- Rankin, Margerie, Florie — Bates, Margerie, Florie.
- Raucamp, Margarete — Hampton, Margarete.
- Rawe, Donna, Lenore — Gulas, Donna, Lenore.
- Rawson, Charles, Harry — Rawson, Charles, Christopher.
- Rebello, Maria, De Fatima, Furtado — De Melo, Maria, De Fatima, Furtado.
- Richards, Patricia, Christine — McGinn, Patricia, Christine.
- Riebow, Dagmar — Svarc, Dagmar.
- Rigby, Moire, Ann — Balzan, Moire, Ann.
- Ritter, Karen, Ann — Bandy, Karen, Ann.
- Ritter, Lorrie, Lynne — Mackey, Lorrie, Lynne.
- Rizkallah Isak, Mona — Effat, Mona.
- Rose, Tracy, Ann — Washer, Tracy, Ann.
- Rosenbaum, Rhoda, Mona — Pitcher, Rhoda, Mona.
- Rossi, Mina, Anna — James, Mina, Anna.
- Samsair, Jina, Annie — Balaban, Jina, Annie.
- Sanbeer, Tagenarine, Sawh — Sawh, Ronald, Tagenarine.
- Sanjana, Victoria, Ruth — Kashiyama, Victoria, Ruth.
- Schmidt, Karen, Eileen — Lefebvre, Karen, Eileen.
- Sedore, Pamela, Grace — Wayte, Pamela, Grace.
- Settle, Crystal, Jean, Delorme — Tye, Crystal, Jean, Delorme.
- Sexsmith, Margaret — Rose, Margaret.
- Shallow, Nicole, Allison — Jacobs, Nicole, Allison.
- Shapira, Eden, Donato — Angeles Shapira, Eden.
- Shaw, Rory, John — De Brouwer, Rory, John.
- Shillington, Catherine, May — Harrington, Catherine, May.
- Shortt, Kelly, Lyn — Patterson, Kelly, Lyn.
- Shperuk, Amy, Lee, May — Nixon, Amy, Lee, May.
- Siebenga, Esther, Jane — Steenland, Esther, Jane.
- Siemon, Gayle, Marie — Siemon-Ahrens, Gayle, Marie.
- Simacov, Israel — Simacov, Izzy.
- Simpson, Denise, Anne — Palomba, Denise, Anne.
- Singh, Mangal, Deolal — Deolal, Mangal, Singh.
- Sinnige, Jo-Anne, Glades — Sinnige-Egger, Jo-Anne, Glades.
- Slade, Susan, Elizabeth — Chin, Susan, Elizabeth.
- Smith, Jo-Anne, Marie — Munday, Jo-Anne, Marie.
- Snyder, Lisa, Lee — Prong, Lisa, Lee.
- So, Ching Lin — Trieu, Ching Lin.
- So, Evelyn, Uy — So-Chow, Evelyn, Uy.
- Socci, Carmelina, Lucia — Overholt, Carmelina, Lucia.
- Southgate, Elizabeth, Arlene — Southgate-Rogers, Elizabeth, Arlene.
- Speranza, Margherita — Scarcello, Margherita.
- St Pierre, Gail, Annette — Mossey, Gail, Annette.
- Stevens, Leslie, Vermell — Poole, Leslie, Vermell.
- Stewart, Anthony, Clark — Ford, Anthony, Clark, Stewart.
- Stirpe, Maria, Assunta — Decuzzi, Maria, Assunta.
- Stoikoff, Ellen — Radic, Ellen.
- Sugars, Pauline, Anne — King, Pauline, Anne.
- Suk, Bruno, John — Bruno, Adam, John.
- Suk, Mari-Ann — Bruno, Mari-Ann.
- Swami, Rachana — Tolia, Deepa, Rachana.
- Tan, Deguang — Tam, Dup, Koun, Brandon.
- Tan, Shiya — Tam, Shee, Yar, Sarah.
- Tan, Shuquiong — Ho Tam, Sook, King.
- Tan, Zhao, Hui — Tam, Sheu, Fai.
- Teskey, Kevin, Edmund — Steel, Kevin, Edmund.
- Thinel, Jacqueline, Anne — Bittschwam, Jacqueline, Anne.
- Thompson, Angela, Mae — Hutton, Angela, Mae.
- Tinamisan, Milagros, M. — Uniana, Milagros, M.
- Todd, Susan, Elizabeth — Courtney, Susan, Elizabeth.
- Tomlinson, Barbara, Joan — Graham, Barbara, Joan.
- Tomlinson, Sharon, Ann — Johnston, Sharon, Ann.
- Tucker, Marie, Sylvia — Theriault, Marie, Sylvia.
- Tyrala, Beata, Helena — Tyrala-Grenier, Beata, Helena.
- Vaidya, Renu, Ajit — Khan, Rehana, Naseerunissa.
- Valente, Maria, Da Gloria — Valente Ferreira, Maria, Da Gloria.
- Van Lochem, Linda, Joann — Darkes, Linda, Joann.
- Vandayar, Thilama — Pillay, Thilama.
- Vandergeest, Brandy, Michelle — Legrow, Brandy, Michelle.
- Vandusen, Jake, William, Garnet — Donahue, Jake, William.
- Visconti, Rosaria, Maria — Allain, Rosaria, Maria.
- Waechter, Gladys, Theresa — Waechter, Rhoda, Ann.
- Waite, Fred, Peter — Waite, Michael, Peter.
- Walker, Elizabeth, Jane — Jones, Elizabeth, Jane.
- Walker, Mary, Michael — De Montbrun, Mary-Michael.
- Wall, Donna, Georgina — Phoenix, Donna, Georgina.
- Wallace, Margaret, Eleanor — Dziuk, Margaret, Eleanor.
- Waltz, Elizabeth, Renee — Munroe, Elizabeth, Renee.
- Warner, Lynette, Marie — McFee, Lynette, Marie.
- Warren, Nancy, Margaret — Palermo, Nancy, Margaret.
- Warwick, Dale, Manzi, Victoria — Boesten, Dale, Manzi, Victoria.
- Weaver, Karen, Louise — Lambert, Karen, Louise.
- Weston, Ruth — Keasey, Ruth.
- Whitley, Gail, Elaine — Morgan, Gail, Elaine.
- Whyte, Andrea, Lynn — Bradshaw, Andrea, Lynn.
- Williams, Evelyn, Holley — Williams-Keeler, Evelyn, Holley.
- Williams, Sandra, Lynn — Worth, Sandra, Lynn.
- Williams, Sonia, Ann — Beasley, Sonia, Ann.



Wilson, Kim, Marie — Dibbits, Kim, Marie.  
 Wilson, Thomasena, Heather — Flood, Thomasena, Heather.  
 Wilson-Sleet, Jean, Dorothy — Alford, Jean, Dorothy.  
 Woldegheghis, Woldegheghiel, Araya — Araia, Gabriel.  
 Wong, Shi, Seung — LaFortune, Shi, Seung.  
 Woolley, Barbara, Dianne — Woolley-Guest, Barbara, Dianne.  
 Wright, Sharon, Margaret — McKay, Sharon, Margaret.  
 Yao, Xin — Fong, Xin.  
 Young, Jane, Elizabeth — Patrie, Jane, Elizabeth.  
 Young, Lori-Ann, Stacey — Partington, Lori-Ann, Stacey.  
 Zak, Anna, Grazyna — Brunka, Anna, Grazyna.  
 Zamanis, Mary — Retsos, Maria.  
 Zarkovich, Martha, Mary — Broz, Martha, Mary.  
 Zimmerman, Melissa, Kaye — Osborne, Melissa, Kaye.  
 Zulak, Karen, Pauline — St Godard, Karen, Pauline.

Dated this 27th day of July, 1990.

(4505) 33 CAROLYNN LA CHAPELLE,  
 Deputy Registrar General.

## Orders in Council/Décrets

O.C. 1941/90

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and concurrence of the Executive Council, orders that

1. The portions of highway in the City of Scarborough, in the Municipality of Metropolitan Toronto, under the jurisdiction and control of the Ministry of Transportation and Communications, shown as:

- PARTS 1 AND 2 on Ministry Plan P-2310-232, filed with the Administrative Services Office of the Ministry at Toronto on the 25th day of June, 1990 and being;
- Part of Lot 35, Ranges 2 and 3, Broken Front Concessions; and being part of the original

road allowance between Range 2, Broken Front Concession and Range 3, Broken Front Concession, in Front of Lot 35, of the Geographic Township of Pickering, shown as PART 1 on a Plan of Survey P-2310-233 being a Reference Plan deposited in the Land Registry Office for the Registry Division of Toronto Boroughs as Plan 64R-12548;

be designated as the King's Highway, as a controlled-access highway and/or transferred as described below:

- (a) PART 1 on Ministry Plan P-2310-232 be designated as the King's Highway, pursuant to section 7 of the Public Transportation and Highway Improvement Act, R.S.O. 1980, chapter 421 as amended;
- (b) PART 2 on Ministry Plan P-2310-232 be designated as a controlled-access highway, pursuant to section 36 of the Public Transportation and Highway Improvement Act, R.S.O. 1980, chapter 421 as amended;
- (c) (i) PART 1 on Ministry Plan P-2310-232 and  
 (ii) PART 1 on Ministry Plan P-2310-233

be transferred to the City of Scarborough and be vested in and under the jurisdiction and control of the City of Scarborough on and after the day on which this Order is approved, pursuant to subsection 29 (4) of the Public Transportation and Highway Improvement Act, R.S.O. 1980, chapter 421 as amended; and

2. The designation of the above-mentioned highway as a controlled-access highway contained in Schedule 17 to Reg. 399, R.R.O. 1970 be amended so as to cease to apply to the portion of highway shown as PART 1 on Ministry Plan P-2310-233.

Recommended

WILLIAM WRYE,  
 Minister of Transportation.

Concurred

MURRAY J. ELSTON,  
 Chairman.

Approved and Ordered, July 27, 1990.

(4507) 33 LINCOLN M. ALEXANDER,  
 Lieutenant Governor.

## Applications to Provincial Parliament—Private Bills Demandes au Parlement provincial—Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

The Office of the Clerk of the Legislative Assembly  
Room 1521, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/963-1300 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIER,  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## Petitions to Provincial Parliament/Pétitions au Parlement provincial

Extract from the Standing Orders respecting petitions

35. (c) Every petition shall:
- (i) be addressed to the Parliament, Legislature or Legislative Assembly of Ontario;
  - (ii) contain a clear, proper and respectful request that the House take some action within its authority;
  - (iii) be written, typewritten or printed, without erasures or insertions;
  - (iv) have its request appear at the top of every sheet, if it consists of more than one sheet of signatures; and
  - (v) contain the names, addresses and original signatures written directly on the face of the petition and not pasted thereon or otherwise transferred to it.
- (d) Every member presenting a petition shall ensure that the petition conforms with the Standing Orders.
- (e) The signature of every member presenting a petition shall be affixed to the petition.

Further information with respect to petitions may be obtained from:

Journals Branch  
Room 110, Legislative Building  
Queen's Park  
Toronto, Ontario  
M7A 1A2

Telephone: 416/965-1406  
(Collect calls will be accepted.)

### SAMPLE FORM FOR PETITIONS

#### PETITION

*To The Parliament/Legislature/Legislative Assembly (choose one) of Ontario:—*

WHEREAS (preamble if required)

WHEREAS (preamble if required)

I/We the undersigned petition the Parliament/Legislature/Legislative Assembly (choose one) of Ontario as follows:—

(Text of Petition)

Name (printed)

Address (printed)

Signature

(4268) T.F.N.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

## Applications to Provincial Parliament Demandes au Parlement Provincial

### GILFORD LAND DEVELOPMENT CO. LIMITED

NOTICE IS HEREBY GIVEN that on behalf of Gilford Land Development Co. Limited application will be made to the Legislative Assembly of the Province of Ontario for an Act reviving the corporation.

The application will be considered by a Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 1st day of July, 1990.

BRIAN McDONOUGH,  
on behalf of the Applicant,  
Gilford Land Development Co.

(6855) 31 to 34 Limited

### CITY OF YORK

#### NOTICE OF APPLICATION FOR SPECIAL LEGISLATION

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the City of York, application will be made to the Legislative Assembly of the Province of Ontario for an Act granting the Corporation of the City of York certain powers and imposing certain duties regarding its Board of Health as follows:

1. the Council of the City of York shall stand in the place of its Board of Health in respect of the appointment, reappointment and dismissal of the Medical Officer of Health; and

2. the Council of the City of York shall provide to its Board of Health such employees of the City including public health nurses that it considers necessary to carry out the functions of the Board of Health; and

3. the Council of the City of York shall appoint the auditor of its Board of Health.

This application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee

of Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 2nd day of August, 1990.

THE CORPORATION OF  
THE CITY OF YORK,  
GEORGE MCQ. BARTLETT,  
City Solicitor.

(6896) 32 to 35

## Corporation Notices Avis relatifs aux compagnies

### KEN HILL INSURANCE BROKER LTD.

NOTICE IS HEREBY GIVEN that Ken Hill Insurance Broker Ltd. intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 20th day of July, 1990.

SCOTT CREIGHTON,  
President.

(6938) 33

### BEEMANS SUPPLY INC.

NOTICE IS HEREBY GIVEN that Beemans Supply Inc. intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 2nd day of August, A.D. 1990.

REG BEECH,  
President.

(6939) 33

### 86074 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 86074 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated at Owen Sound, this 26th day of June, 1990.

CLAYTON STOUT,  
President.

(6940) 33

### 403132 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 403132 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act*, 1982.

Dated this 1st day of August, 1990.

LAWRENCE MIOTTO,  
President.

(6941) 33



**ROGER HARRIS LIMITED**

NOTICE IS HEREBY GIVEN that Roger Harris Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Stratford, this 2nd day of August, 1990.

(6942) 33 W. ROGER HARRIS,  
President.

**695063 ONTARIO INC.**

NOTICE IS HEREBY GIVEN that 695063 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Scarborough, this 15th day of August, 1990.

(6943) 33 ELAINE RONCALLI,  
Secretary.

**SPRINGBANK DAYCARE CENTRES INC.**

NOTICE IS HEREBY GIVEN that Springbank Daycare Centres Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Oakville, this 23rd day of July, 1990.

(6944) 33 MARLENE JOYCE RIZZUTO,  
President.

**PABISHEETS INVESTMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Pabisheets Investments Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

(6945) 33

**GALTBOLL INVESTMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Galtboll Investments Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Willowdale, this 18th day of June, 1990.

(6946) 33 ARTHUR ROBERTSON,  
President.

**MATTICE LUMBER COMPANY LIMITED**

NOTICE IS HEREBY GIVEN that Mattice Lumber Company Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 17th day of May, 1990.

(6947) 33 MAURICE GAGNON,  
Secretary.

**R & A RIEXINGER LIMITED**

NOTICE IS HEREBY GIVEN that R & A Rieixinger Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 27th day of July, 1990.

(6948) 33 ROLF RIEXINGER,  
Secretary.

**GOLDWINGS CONSTRUCTION GROUP INC.**

Ontario Corporation #873994

NOTICE IS HEREBY GIVEN that Goldwings Construction Group Inc. Ontario Corporation #873994 intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 7th day of August, 1990.  
(6949) 33

**DUSTAR MANAGEMENT SERVICES LTD.**

NOTICE IS HEREBY GIVEN that Dustar Management Services Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Ottawa, this 12th day of July, 1990.

(6950) 33 VERA KLEIN,  
President and Director.

**NALGAR INVESTMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Nalgar Investments Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 31st day of July, 1990.

(6951) 33

**PEDERSEN'S STORE EQUIPMENT & SUPPLIES LIMITED**

NOTICE IS HEREBY GIVEN that Pedersen's Store Equipment & Supplies Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 1st day of August, 1990.

(6952) 33

**BERTRAND CONCRETE STAMPING INC.**

NOTICE IS HEREBY GIVEN that Bertrand Concrete Stamping Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 30th day of July, 1990.

(6953) 33 J. R. MICHEL BERTRAND.

**KEN'S AUTO BODY (OWEN SOUND) LIMITED**

NOTICE IS HEREBY GIVEN that the shareholders of Ken's Auto Body (Owen Sound) Limited have authorized that the Corporation be dissolved by a special resolution consented to in writing by all the shareholders on the 3rd day of August, 1990.

Dated this 3rd day of August, 1990.

(6954) 33 KENNETH WILLITON.

**CABLE SOLUTIONS INC.**

NOTICE IS HEREBY GIVEN that Cable Solutions Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 3rd day of August, 1990.

(6955) 33 By their solicitors,  
MCLEAN & KERR.

**529653 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 529653 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 31st day of July, 1990.

(6956) 33

J. BOSSCHART,  
Secretary.

**841548 ONTARIO INC.**

NOTICE IS HEREBY GIVEN that 841548 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 6th day of July, 1990.

(6957) 33

PETER A. LOVE,  
Secretary.

**POLAR CHEMICAL INDUSTRIES LIMITED**

NOTICE IS HEREBY GIVEN that Polar Chemical Industries Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Richmond Hill, this 31st day of July, 1990.

(6958) 33

M. E. BOTELHO,  
Secretary.

**PAFCO INSURANCE COMPANY LIMITED**

NOTICE IS HEREBY GIVEN that upon motion duly made, seconded and carried unanimously, it was resolved as a special resolution passed at a meeting held on July 12, 1990 that the number of directors of the Corporation be increased from three (3) to five (5).

Dated this 12th day of July, 1990.

(6959) 33

JOHN THOMPSON,  
Secretary.

**WILLIAM (FRANK) TRUDELL LIMITED**

NOTICE IS HEREBY GIVEN that William (Frank) Trudell Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Windsor, this 2nd day of August, 1990.

(6960) 33

WILLIAM F. TRUDELL,  
Secretary.

**FRANK ROWLAND REALTY (1990) LIMITED**

TAKE NOTICE that at a special general meeting of the shareholders of the above Corporation held on the 27th day of July, 1990, a resolution was passed requiring the voluntary winding up of the above Corporation pursuant to section 192 (1) of the Ontario *Business Corporations Act* and appointing the undersigned as liquidator.

Dated at Toronto, this 7th day of August, 1990.

(6961) 33

DELOITTE & TOUCHE INC.,  
Liquidator,  
Suite 1000,  
95 Wellington Street West,  
Toronto, Ontario M5J 2P4.

**GYR PROPERTIES LIMITED**

NOTICE IS HEREBY GIVEN that GYR Properties Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 16th day of July, 1990.

(6968) 33

G. WAYNE SQUIBB,  
Secretary-Treasurer.

**397339 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 397339 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 8th day of July, 1990.

(6969) 33

**ANBEN CONTRACTING LTD.**

TAKE NOTICE that a special resolution requiring the Corporation to be wound up voluntarily and appointing John Spencer and Benedict Kan as liquidator, was passed by the shareholders of the Corporation on the 31st day of July, 1990.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty days of the date of this Notice, after which time the property of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

The address for service is c/o Rainer & Wood, Barristers & Solicitors, 330 Bay Street, Suite 700, Toronto, Ontario M5H 2S8.

Dated this 31st day of July, 1990.

(6970) 33

JOHN SPENCE,  
BENEDICT KAN.

## Notice to Creditors Avis aux créanciers

**ESTATE OF DAVID ALEXANDER CHEVERIE**

All claims against the Estate of David Alexander Cheverie, late of Brampton, Province of Ontario, who died on or about the 8th day of February, 1990, in Toronto, Province of Ontario, must be filed with the undersigned personal representative on or before the 11th day of January, 1991; thereafter, the undersigned will distribute the assets of the said Estate, having regard only to the claims then filed.

Dated at Charlottetown, in Queens County, Province of Prince Edward Island, this 18th day of July, 1990.

CARR, STEVENSON &  
MACKAY,  
Barristers & Solicitors,  
50 Water Street,  
P.O. Box 522,  
Charlottetown, P.E.I. C1A 7L1,  
(6887) 31 to 33 Telephone: (902) 892-4156.

#### IN THE ESTATE OF HAROLD BLATHERWICK, DECEASED

All claims against the Estate of Harold Blatherwick, late of the City of Toronto in the Municipality of Metropolitan Toronto, who died on or about April 30, 1990, must be filed with the undersigned personal representative on or before October 1, 1990; thereafter the undersigned will distribute the assets of the Estate having regard only to the claims then filed.

Dated at Toronto, this 3rd day of August, 1990.

ALICE HAZEL BLATHERWICK,  
LEONARD BLATHERWICK,  
Administrators by their  
solicitor,  
Willa Joan Corse,  
78 Shields Avenue,  
(6964) 33 to 35 Toronto, Ontario M5N 2K4.

#### IN THE ESTATE OF ROBERT FRANCIS BORLAND COOLEY, DECEASED

All claims against the Estate of Robert Francis Borland Cooley, late of the City of Toronto in the Municipality of Metropolitan Toronto, who died on or about April 24, 1990, must be filed with the undersigned on or before October 1, 1990, thereafter the undersigned will distribute the assets of the Estate having regard only to the claims then filed.

Dated at Toronto, this 3rd day of August, 1990.

FRANCES JANE COOLEY,  
MARGARET ANN COOLEY,  
MARY LOUISE OAKES,  
Trustees by their solicitor,  
Willa Joan Corse,  
78 Shields Avenue,  
(69654) 33 to 35 Toronto, Ontario M5N 2K4.

### Dissolutions of Partnership Dissolution de sociétés

#### FULTON DIESEL

NOTICE IS HEREBY GIVEN that the partnership known as Fulton Diesel formed between Mark Andrew Csatory and Valerie Diane Burrell has been dissolved effective August 1st, 1990.

Dated this 1st day of August, 1990.

(6962) 33

#### HILBORN ELLIS GRANT

Notice pursuant to The Partnership Act. R.S.O. 1980, c. 370, subs. 36 (2).

TAKE NOTICE that Michael H. Murnaghan is no longer a partner of the firm Hilborn Ellis Grant and that no action on his part is to be construed as binding upon the remaining partners of the firm.

Dated this 11th day of July, 1990.

(6963) 33

### Miscellaneous Notices Avis divers

#### CORPORATION OF THE TOWNSHIP OF TECUMSETH

##### OZMAN PRIVATE CEMETERY

NOTICE IS HEREBY GIVEN that the cemetery known as the Ozman Private Cemetery, located on lands owned by William John and Margaret Jean Brethet, with a municipal address of R.R. #3, Tottenham, Ontario and more particularly described as Part North Half Lot 20, Concession 5, in the Township of Tecumseth, in the County of Simcoe, is the subject of an application for closure whereupon no further interments shall take place therein.

AND NOTICE IS HEREBY GIVEN pursuant to Section 59 of the *Cemeteries Act*, Revised Statutes of Ontario, 1980, Chapter 59, that application will be made to the Lieutenant Governor in Council for an Order directing that the remains, headstones and markers in said cemetery be removed therefrom in accordance with the provisions of said Act.

AND FURTHER NOTICE IS HEREBY GIVEN that it is the intention of The Corporation of the Township of Tecumseth, owner of the Cemetery pursuant to Section 62 of the *Cemeteries Act*, to remove the remains, the headstones and markers to St. John's Anglican Church Cemetery at the South Part of Lot 17, Concession 6, in the Township of Tecumseth, County of Simcoe, where they will be re-interred in a common grave and the headstones and markers will be reassembled in a cairn at the site.

Dated at Beeton, this 13th day of July, 1990.

CORPORATION OF THE  
TOWNSHIP OF TECUMSETH,

PATRICIA M. MIDDLEBROOK,  
AMCT.  
Deputy-Clerk,  
P.O. Box 220,

(6817) 30 to 33 Beeton, Ontario L0G 1A0.

### Sheriffs' Sales of Lands Ventes de terrains par le shérif

UNDER AND BY VIRTUE OF a Writ of Seizure and Sale issued out of the Supreme Court of



Ontario wherein the Bank of Montreal is the plaintiff and Brenda M. Vancoughnett is the defendant and to me directed against the real and personal property of the said Brenda M. Vancoughnett, I have seized and taken in execution all the right, title, interest of the said Brenda M. Vancoughnett in and to the following described property:—

Those lands and premises located in the following municipality, namely in the City of Windsor, in the County of Essex and the Province of Ontario, and being composed of Lot 132, according to registered Plan 1140, in the City of Windsor, in the County of Essex and Province of Ontario.

The property is municipally known as: 2509 Alexis Road, in the City of Windsor.

On the premises there is said to be a 1½ story frame building.

All of which said right, title, interest and equity of redemption of said Brenda M. Vancoughnett in

the said real property I will offer for sale by public auction at my office in the Court House, 245 Windsor Avenue, Windsor, Ontario on Monday, September 24, 1990 at 11.00 a.m.

Dated at Windsor, Ontario this 3rd day of August, 1990.

TERMS: Cash or certified cheque.  
Deposit 10% of bid price at time of sale.  
Ten days to arrange financing.  
Delivery only on payment in full.

No employee of the Ministry of the Attorney General may purchase any goods, chattels, lands or tenements exposed by a Sheriff for sale under legal process, either directly or indirectly.

This sale is subject to cancellation up to time of sale without any further notice.

DAVID J. C. MONTAGUE,  
Sheriff, County of Essex.

(6966) 33

**Sales of Lands for Tax Arrears by Public Auction**  
**Ventes de terrains aux enchères publiques pour arriéré d'impôt**

MUNICIPAL TAX SALES ACT, 1984

**THE CORPORATION OF THE TOWNSHIP OF HARWICH**

TAKE NOTICE that the land(s) described below will be offered for sale by public auction at 1.30 o'clock in the afternoon on the 11th day of October, 1990 at The Township of Harwich Municipal Centre, 1000 Highway 40 South.

Description of Land(s)	Minimum Bid
1. Roll No. 6-383 Part of Lot 15, Plan 109, Southwest Albert St., Village of Shrewsbury .....	\$1,538.13
2. Roll No. 6-550 Plan 109, Part Block Court House Southwest Adelaide St., Village of Shrewsbury .....	1,880.80
3. Roll No. 4-438 Lot 87, Plan 669, Lagonda Cres. ....	3,087.13
4. Roll No. 6-134 East Part of Lot 2, Plan 109, Northeast Woods St., Village of Shrewsbury .....	1,711.67
5. Roll No. 6-153 North Part of Lot 3, Plan 109 Southwest Wolfe St., Village of Shrewsbury .....	3,473.76
6. Roll No. 6-757 North Part of Lot 10, Plan 109 Southwest Talbot St., Village of Shrewsbury .....	3,433.55
7. Roll No. 6-780 Lot 10, Northeast Talbot St., Plan 109, Village of Shrewsbury .....	2,660.31
8. Roll No. 10-401 Part of Lot 9, Con. 4 WCR, S/S Hwy. 3 .....	3,553.39

All amounts payable by the successful purchaser shall be payable in full at the time of the sale by cash or money order or by a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, and the *Municipal Tax Sales Rules*. The successful purchaser will be required to pay the amount bid plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale, contact:

NANCY L. RUMBLE,  
Treasurer,  
THE CORPORATION OF THE  
TOWNSHIP OF HARWICH,  
P.O. Box 2022,  
1000 Highway 40 South,  
Chatham, Ontario N7M 5L9.

(6967) 33





# Publications under the Regulations Act

## Publications en vertu de la Loi sur les règlements

1990—08—18

### BUILDING CODE ACT

**O. Reg. 413/90.**

General.

Made—July 27th, 1990.

Filed—July 30th, 1990.

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#### REGULATION MADE UNDER THE BUILDING CODE ACT

## Part 1

### Scope and Definitions

<b>Section 1.1</b>	<b>General</b>
1.1.1.	Administration
1.1.2.	Scope
1.1.3.	Definitions of Words and Phrases
1.1.4.	Abbreviations

## Part 1

### Scope and Definitions

#### Section 1.1 General

##### 1.1.1. Administration

1.1.1.1. This Code shall be administered in conformance with the Building Code Act.

##### 1.1.2. Scope

Reserved.

##### 1.1.3. Definitions of Words and Phrases

1.1.3.1. Definitions of words and phrases used in this Code that are not included in the list of definitions in this Part shall have the meanings which are commonly assigned to them in the context in which they are used in this Code, taking into account the specialized use of terms with the various trades and professions to which the terminology applies.

1.1.3.2. Except for the names of statutes, the words and terms in italics in this Code have the following meanings or the meanings as defined in the Act.

*Air conditioning* is the process of treating air to control simultaneously its temperature, humidity, cleanliness, and distribution to meet the comfort requirements of the occupants of the conditioned space.

*Access to exit* means that part of a *means of egress* within a *floor area* that provides access to an *exit* serving the *floor area*.

*Adfreezing* means the adhesion of *soil* to a *foundation unit* resulting from the freezing of *soil water*.

*Air-supported structure* means a structure consisting of a pliable membrane which achieves and maintains its shape and support by internal air pressure.

*Alarm signal* means an audible signal transmitted throughout a zone or zones or throughout a *building* to advise occupants that a fire emergency exists.

*Alert signal* means an audible signal to advise designated persons of a fire emergency.

*Allowable bearing pressure* means the maximum pressure that may be safely applied to a *soil* or *rock* by the *foundation unit* considered in design under expected loading and subsurface conditions.

*Allowable load* means the maximum load that may be safely applied to a *foundation unit* considered in design under expected loading and subsurface conditions.

*Appliance* means a device to convert fuel into energy and includes all components, controls, wiring and piping required to be part of the device by the applicable standard referred to in this Code.

*Artesian groundwater* means a confined body of water under pressure in the ground.

*Assembly occupancy* means the *occupancy* or the use of a *building*, or part thereof, by a gathering of persons for civic, political, travel, religious social, educational, recreational or like purposes, or for the consumption of food or drink.

*Attic or roof space* means the space between the roof and the ceiling of the top *storey* or between a dwarf wall and a sloping roof.

*Authority having jurisdiction* means the governmental body responsible for the enforcement of any part of this Code or the official or agency designated by that body to exercise such a function.

*Barrier-free* means that a building and its facilities can be approached, entered, and used by persons with physical or sensory disabilities.

*Basement* means a *storey* or *storeys* of a *building* located below the *first storey*.

*Bearing surface* means the contact surface between a *foundation unit* and the *soil* or *rock* upon which it bears.

*Boarding, lodging or rooming house* means a *building* where

- (a) *building height* does not exceed 3 *storeys* and *building area* does not exceed 600 m<sup>2</sup>,
- (b) lodging is provided for gain with or without meals for more than 4 persons, and
- (c) lodging rooms do not have both bathrooms and kitchen facilities for the exclusive use of individual occupants.

*Boiler* means an *appliance* intended to supply hot water or steam for space heating, processing or power purposes.

*Breeching* means a *flue pipe* or chamber for receiving *flue* gases from 1 or more *flue* connections and for discharging these gases through a single *flue* connection.

*Building area* means the greatest horizontal area of a *building* above *grade* within the outside surface of exterior walls or within the outside surface of exterior walls and the centre line of *firewalls*.

*Building height* means the number of *storeys* contained between the roof and the floor of the *first storey*.

*Business and personal services occupancy* means the *occupancy* or use of a *building* or part thereof for the transaction of business or the rendering or receiving of professional or personal services.

*Camp for housing of workers* means a camp in which *buildings* or other structures or premises are used to accommodate 5 or more employees.

*Campground* means land or premises used as an overnight camping facility other than a *recreational camp*.

*Chimney* means a primarily vertical shaft enclosing at least 1 *flue* for conducting *flue* gases to the outdoors.

*Chimney liner* means a conduit containing a *chimney flue* used as a lining of a *masonry* or *concrete chimney*.

*Clean water* means water that has passed through a *recirculation system*.

*Closure* means a device or assembly for closing an opening through a *fire separation* or an exterior wall, such as a door, a shutter, wired glass or glass block, and includes all components such as hardware, closing devices, frames and anchors.

*Combustible* means that a material fails to meet the acceptance criteria of CAN4-S114, "Standard Method of Test for Determination of Non-Combustibility in Building Materials."

*Combustible construction* means that type of construction that does not meet the requirements for *noncombustible construction*.

*Contained use area* means a supervised area containing one or more rooms in which occupant movement is restricted to a single room by security measures not under the control of the occupant.

*Day camp* means a camp or resort that admits persons for a continuous period not exceeding twenty-four hours.

*Day nursery* means a day nursery as defined in the Day Nurseries Act.

*Dead load* means the weight of all permanent structural and nonstructural components of a *building*.

*Deep foundation* means a *foundation unit* that provides support for a *building* by transferring loads either by end-bearing to a *soil* or *rock* at considerable depth below the *building*, or by adhesion or friction, or both, in the *soil* or *rock* in which it is placed. *Piles* are the most common type of *deep foundation*.

*Design bearing pressure* means the pressure applied by a *foundation unit* to a *soil* or *rock* and which is not greater than the *allowable bearing pressure*.

*Designer* means the person responsible for the design.

*Design load* means the load applied to a *foundation unit* and which is not greater than the *allowable load*.

*Diving board* means a flexible board.

*Diving platform* means a rigid platform that is not a *starting platform*.

*Dwelling unit* means a *suite* operated as a housekeeping unit, used or intended to be used as a domicile by 1 or more persons and usually containing cooking, eating, living, sleeping and sanitary facilities.

*Excavation* means the space created by the removal of *soil*, *rock* or *fill* for the purposes of construction.

*Exhaust duct* means a duct through which air is conveyed from a room or space to the outdoors.

*Exit* means that part of a *means of egress*, including doorways, that leads from the *floor area* it serves, to a separate *building*, an open public thoroughfare, or an exterior open space protected from fire exposure from the *building* and having access to an open public thoroughfare.

*Exit level* means the level of an enclosed *exit* stair in a *building* governed by Subsection 3.2.6. at which an exterior *exit* door or *exit* corridor leads to the exterior.

*Exit storey* means a *storey* having an exterior *exit* door in a *building* governed by Subsection 3.2.6.

*Exposing building face* means that part of the exterior wall of a *building* which faces one direction and is located between ground level and the ceiling of its top *storey*, or where a *building* is divided into *fire compartments*, the exterior wall of a *fire compartment* which faces one direction.

*Exterior cladding* means those components of a *building* which are exposed to the outdoor environment and are intended to provide protection against wind, water or vapour.

*Factory-built chimney* means a *chimney* consisting entirely of factory-made parts, each designed to be assembled with the other without requiring fabrication on site.

*Farm Building* means a *building* or part thereof which does not contain a *residential occupancy* and which is associated with and located on land devoted to the practice of farming and used essentially for the housing of equipment or livestock, or the production, storage or processing of agricultural and horticultural produce or feeds.

*Fill* means *soil*, *rock*, rubble, industrial waste such as slag, organic material or a combination of these that is transported and placed on the natural surface of a *soil* or *rock* or organic terrain. It may or may not be compacted.

*Fire compartment* means an enclosed space in a *building* that is separated from all other parts of the *building* by enclosing construction providing a *fire separation* that may be required to have a *fire-resistance rating*.

*Fire damper* means a *closure* which consists of a normally held open damper installed in an air distribution system or in a wall or floor assembly, and designed to close automatically in the event of a fire in order to maintain the integrity of the *fire separation*.

*Fire detector* means a device which detects a fire condition and automatically initiates an electrical signal to actuate an *alert signal* or *alarm signal* and includes *heat detectors* and *smoke detectors*.

*Fire load* means the *combustible* contents of a room or *floor area* expressed in terms of the average weight of *combustible* materials per unit area, from which the potential heat liberation may be calculated based on the calorific value of the materials, and includes the furnishings, finished floor, wall and ceiling finishes, trim and temporary and movable *partitions*.

*Fire-protection rating* means the time in hours or fraction thereof that a *closure* will withstand the passage of



flame when exposed to fire under specified conditions of test and performance criteria, or as otherwise prescribed in this Code.

*Fire-resistance rating* means the time in hours or fraction thereof that a material or assembly of materials will withstand the passage of flame and the transmission of heat when exposed to fire under specified conditions of test and performance criteria, or as determined by extension or interpretation of information derived therefrom as prescribed in this Code.

*Fire-retardant treated wood* means wood or a wood product that has had its surface-burning characteristics, such as flame spread, rate of fuel contribution and density of smoke developed, reduced by impregnation with fire-retardant chemicals.

*Fire separation* means a construction assembly that acts as a barrier against the spread of fire.

*Fire stop flap* means a device intended for use in horizontal assemblies required to have a *fire-resistance rating* and incorporating protective ceiling membranes, which operates to close off a duct opening through the membrane in the event of a fire.

*Firewall* means a type of *fire separation* of *noncombustible construction* which subdivides a *building* or separates adjoining *buildings* to resist the spread of fire and which has a *fire-resistance rating* as prescribed in this Code and has structural stability to remain intact under fire conditions for the required fire-rated time.

*First storey* means the *storey* with its floor closest to *grade* and having its ceiling more than 1.8 m above *grade*.

*Flame-spread rating* means an index or classification indicating the extent of spread-of-flame on the surface of a material or an assembly of materials as determined in a standard fire test as prescribed in this Code.

*Floor area* means the space on any *storey* of a *building* between exterior walls and required *firewalls* including the space occupied by interior walls and *partitions*, but not including *exits*, *vertical service spaces*, and their enclosing assemblies.

*Flue* means an enclosed passageway for conveying *flue* gases.

*Flue collar* means the portion of a fuel-fired *appliance* designed for the attachment of the *flue pipe* or *breeching*.

*Flue pipe* means the pipe connecting the *flue collar* of an *appliance* to a *chimney*.

*Forced-air furnace* means a *furnace* equipped with a fan that provides the primary means for the circulation of air.

*Foundation* means a system or arrangement of *foundation units* through which the loads from a *building* are transferred to supporting *soil* or *rock*.

*Foundation unit* means one of the structural members of the *foundation* of a *building* such as a footing, raft or *pile*.

*Frost action* means the phenomenon that occurs when water in *soil* is subjected to freezing which, because of the water ice phase change or ice lens growth, results in a total volume increase or the build-up of expansive forces under confined conditions or both, and the subsequent thawing that leads to loss of *soil* strength and increased compressibility.

*Furnace* means a *space-heating appliance* using warm air as the heating medium and usually having provision for the attachment of ducts.

*Gas vent* means that portion of a venting system designed to convey vent gases to the outdoors from the *vent connector* of a gas-fired *appliance* or directly from the *appliance* when a *vent connector* is not used.

*Grade* means the average level of proposed or finished ground adjoining a *building* at all exterior walls.

*Gross area* means the total area of all floors above *grade* measured between the outside surfaces of exterior walls or between the outside surfaces of exterior walls and the centre line of *firewalls* except that, in any other *occupancy* than a *residential occupancy*, where an access or a *building service* penetrates a *firewall*, measurements shall not be taken to the centre line of such *firewall*.

*Groundwater* means a free standing body of water in the ground.

*Groundwater level* means the top surface of a free standing body of water in the ground.

*Guard* means a protective barrier around openings in floors or at the open sides of stairs, landings, balconies, *mezzanines*, galleries, raised *walkways* or other locations to prevent accidental falls from one level to another. Such barrier may or may not have openings through it.

*Heat detector* means a *fire detector* designed to operate at a predetermined temperature or rate of temperature rise.

*Heavy timber construction* means that type of *combustible construction* in which a degree of fire safety is attained by placing limitations on the sizes of wood structural members and on thickness and composition of wood floors and roofs and by the avoidance of concealed spaces under floors and roofs.

*High hazard industrial occupancy* (Group F, Division 1) means an *industrial occupancy* containing sufficient quantities of highly *combustible* and flammable or explosive materials which, because of their inherent characteristics, constitute a special fire hazard.

*Home for special care* means a home for the care of persons requiring nursing, residential or sheltered care.

*Horizontal exit* means an *exit* from one *building* to another by means of a doorway, vestibule, *walkway*, bridge or balcony.

*Horizontal service space* means a space such as an attic, duct, ceiling, roof or crawl space oriented essentially in a horizontal plane, concealed and generally inaccessible, through which building service facilities such as pipes, ducts and wiring may pass.

*Hotel* means a *building*, or part of a *building*, which contains sleeping accommodation consisting of 4 or more *suites* or *dwelling units* under 1 roof, for the travelling public or for recreational purposes and includes, but is not limited to, *buildings* commonly known as hotels, motels, inns, resorts or apartment hotels.

*Impeded egress zone* means a supervised area in which occupants have free movement but require the release, by security personnel, of security doors at the boundary before they are able to leave the area, but does not include a *contained use area*.

*Indirect service water heater* means a *service water heater* that derives its heat from a heating medium such as warm air, steam or hot water.

*Indoor pool* means a *public pool* where the pool and *pool deck* are totally or partially covered by a roof.

*Industrial occupancy* means the *occupancy* or use of a *building* or part thereof for the assembling, fabricating, manufacturing, processing, repairing or storing of goods and materials.

*Institutional occupancy* means the *occupancy* or use of a *building* or part thereof by persons who require supervisory care, medical care or medical treatment or by persons who are under restraint for correctional purposes and are incapable of self preservation because of security measures not under their control.

*Interconnected floor space* means superimposed *floor areas* or parts of *floor areas* in which floor assemblies that are required to be *fire separations* are penetrated by openings that are not provided with *closures*.

*Limiting distance* means the distance from an *exposing building face* to a property line, the centre line of a *street*, lane or public thoroughfare, or to an imaginary line between 2 *buildings* or *fire compartments* on the same property, measured at right angles to the *exposing building face*.

*Listed* means equipment or materials included in a list published by a certification organization accredited by the Standards Council of Canada.

*Live load* means the load other than *dead load* to be assumed in the design of the structural members of a *building*. It includes loads resulting from snow, rain, wind, earthquake and those due to *occupancy*.

*Loadbearing* as applying to a *building* element means subjected to or designed to carry loads in addition to its own *dead load*, excepting a wall element subjected only to wind or earthquake loads in addition to its own *dead load*.

*Low hazard industrial occupancy* (Group F, Division 3) means an *industrial occupancy* in which the *combustible* content is not more than 50 kg/m<sup>2</sup> or 1200 MJ/m<sup>2</sup> of *floor area*.

*Major occupancy* means the principal *occupancy* for which a *building* or part thereof is used or intended to be used, and shall be deemed to include the subsidiary *occupancies* which are an integral part of the principal *occupancy*.

*Make-up water* means water added to a *public pool* from an external source.

*Masonry or concrete chimney* means a *chimney* of brick, stone, concrete or masonry units constructed on site.

*Means of egress* means a continuous path of travel provided for the escape of persons from any point in a *building* or contained open space to a separate *building*, an open public thoroughfare, or an exterior open space protected from fire exposure from the *building* and having access to an open public thoroughfare. *Means of egress* includes *exits* and *access to exits*.

*Medium hazard industrial occupancy* (Group F, Division 2) means an *industrial occupancy* in which the *combustible* content is more than 50 kg/m<sup>2</sup> or 1200 MJ/m<sup>2</sup> of *floor area* and not classified as *high hazard industrial occupancy*.

*Mercantile occupancy* means the *occupancy* or use of a *building* or part thereof for the displaying or selling of retail goods, wares or merchandise.

*Mezzanine* means an intermediate floor assembly between the floor and ceiling of any room or *storey* and includes an interior balcony.

*Modified pool* means a *public pool* that has a basin-shaped floor sloping downward and inward toward the interior from the rim.

*Noncombustible* means that a material meets the acceptance criteria of CAN4-S114, "Standard Method of Test for Determination of Non-Combustibility in Building Materials".

*Noncombustible construction* means that type of construction in which a degree of fire safety is attained by the use of *noncombustible* materials for structural members and other building assemblies.

*Occupancy* means the use or intended use of a *building* or part thereof for the shelter or support of persons, animals or property.

*Occupant load* means the number of persons for which *building* or part thereof is designed.

*Open-air storey* means a *storey* in which at least 25 per cent of the total area of its perimeter walls is open to the outdoors in a manner that will provide cross ventilation to the entire *storey*.

*Outdoor pool* means a *public pool* that is not an *indoor pool*.

*Owner* means any person, firm or corporation controlling the property under consideration.

*Partition* means an interior wall 1 *storey* or part-*storey* in height that is not *loadbearing*.

*Party wall* means a wall jointly owned and jointly used by 2 parties under easement agreement or by right in law, and erected at or upon a line separating 2 parcels of land each of which is, or is capable of being, a separate real-estate entity.

*Perched groundwater* means a free standing body of water in the ground extending to a limited depth.

*Pharmacy* means a premises or the part of a premises in which prescriptions are compounded and dispensed for the public or in which drugs are sold by retail.

*Pile* means a slender *deep foundation unit*, made of materials such as wood, steel or concrete or combination thereof, which is either premanufactured and placed by driving, jacking, jetting or screwing, or cast-in-place in a hole formed by driving, excavating or boring.

*Plenum* means a chamber forming part of an air duct system.

*Plumbing system* means a drainage system, a venting system and a water system or parts thereof.

*Pool deck* means the area immediately surrounding a *public pool*.

*Post-disaster building* means a *building* essential to provide services in the event of a disaster, and includes hospitals, fire stations, police stations, radio stations, telephone exchanges, power stations, electrical substations, water and sewage pumping stations and fuel depot *buildings*.

*Potable water* means water that is fit for human consumption.

*Potable water system* means the plumbing that conveys *potable water*.

*Private sewage disposal system* means a privately owned plant for the treatment and disposal of sewage such as a septic tank with an absorption field.

*Public corridor* means a corridor that provides *access to exit* from more than 1 *suite*.

*Public pool* means a structure, basin, chamber or tank containing or intended to contain an artificial body of water for swimming, water sport, water recreation or entertainment but does not include

- (a) pools operated in conjunction with less than six *dwelling units*, *suites* or single family residences or any combination thereof,
- (b) pools that are used only for commercial display and demonstration purposes,
- (c) wading pools,



(d) hydro-massage pools, or

(e) pools that serve only as receiving basins for persons at the bottom of water slides.

**Public way** means a sidewalk, *street*, highway, square or other open space to which the public has access, as of right or by invitation, expressed or implied.

**Range** means a cooking *appliance* equipped with a cooking surface and 1 or more ovens.

**Recirculation system** means a system that maintains circulation of water through a *public pool* by pumps, and that provides continuous treatment that includes filtration and chlorination or bromination and any other process that may be necessary for the treatment of the water.

**Recreational camp** means a camp for recreational activities consisting of 1 or more *buildings* or other structures, established or maintained as living quarters with or without charge for 10 or more persons, for temporary occupancy of 5 or more days.

**Repair garage** means a *building* or part thereof where facilities are provided for the repair or servicing of motor vehicles.

**Residential occupancy** means the *occupancy* or use of a *building* or part thereof by persons for whom sleeping accommodation is provided but who are not harboured or detained to receive medical care or treatment or are not involuntarily detained.

**Return duct** means a duct for conveying air from a space being heated, ventilated or air-conditioned back to the heating, ventilating or *air-conditioning appliance*.

**Rock** means that portion of the earth's crust which is consolidated, coherent and relatively hard and is a naturally formed, solidly bonded, mass of mineral matter which cannot readily be broken by hand.

**Sanitary drainage system** means a drainage system that conducts sewage.

**Self-Service storage building** means a *building* that is used to provide individual storage spaces to the public and that is open to the public only for those purposes.

**Service room** means a room provided in a *building* to contain equipment associated with *building* services.

**Service space** means space provided in a *building* to facilitate or conceal the installation of building service facilities such as chutes, ducts, pipes, shafts or wires.

**Service water heater** means a device for heating water for plumbing services.

**Shallow foundation** means a *foundation unit* which derives its support from *soil* or *rock* located close to the lowest part of the *building* which it supports.

**Smoke alarm** means a combined *smoke detector* and audible alarm device designed to sound an alarm within the room or *suite* in which it is located upon the detection of smoke within that room or *suite*.

**Smoke detector** means a *fire detector* designed to operate when the concentration of airborne combustion products exceeds a pre-determined level.

**Soil** means that portion of the earth's crust which is fragmentary, or such that some individual particles of a dried sample may be readily separated by agitation in water; it includes boulders, cobbles, gravel, sand, silt, clay and organic matter.

**Space heater** means a *space-heating appliance* for heating the room or space within which it is located, without the use of ducts.

**Space-heating appliance** means an *appliance* intended for the supplying of heat to a room or space directly, such as a *space heater*, fireplace or *unit heater*, or to rooms or spaces of a *building* through a heating system such as a central *furnace* or *boiler*.

**Sprinklered** means equipped with a system of automatic sprinklers.

**Stage** means a space designed primarily for theatrical performances with provision for quick change scenery and overhead lighting, including environmental control for a wide range of lighting and sound effects and which is traditionally, but not necessarily, separated from the audience by a proscenium wall and curtain opening.

**Starting platform** means a rigid platform located entirely on the *pool deck* consisting of a top which, if projected horizontally over the water surface, would be less than 1 m in vertical height above the surface and that is designed to be used by a swimmer to dive from at the start of a swimming race.

*Storage garage* means a *building* or part thereof intended for the storage or parking of motor vehicles and which contains no provision for the repair or servicing of such vehicles.

*Storage-type service water heater* means a *service water heater* with an integral hot water storage tank.

*Storey* means that portion of a *building* which is situated between the top of any floor and the top of the floor next above it, and if there is no floor above it, that portion between the top of such floor and the ceiling above it.

*Stove* means an *appliance* intended for cooking and space heating.

*Street* means any highway, road, boulevard, square or other improved thoroughfare 9 m or more in width, which has been dedicated or deeded for public use, and is accessible to fire department vehicles and equipment.

*Subsurface investigation* means the appraisal of the general subsurface conditions at a *building* site by analysis of information gained by such methods as geological surveys, in situ testing, sampling, visual inspection, laboratory testing of samples of the subsurface materials and *groundwater* observations and measurements.

*Suite* means a single room or series of rooms of complementary use, operated under a single tenancy, and includes *dwelling units*, individual guest rooms in motels, hotels, boarding houses, rooming houses and dormitories as well as individual stores and individual or complementary rooms for *business and personal services occupancies*.

*Supply duct* means a duct for conveying air from a heating, ventilating or *air-conditioning appliance* to a space to be heated, ventilated or air-conditioned.

*Theatre* means a place of public assembly intended for the production and viewing of the performing arts or the screening and viewing of motion pictures, and consisting of an auditorium with permanently fixed seats intended solely for a viewing audience.

*Unit heater* means a suspended *space heater* with an integral air circulating fan.

*Unprotected opening* as applying to *exposing building face* means a doorway, window or opening other than one equipped with a *closure* having the required *fire-protection rating*, or any part of a wall forming part of the *exposing building face* that has a *fire-resistance rating* less than required for the *exposing building face*.

*Vent connector* as applying to heating or cooling systems means the part of a venting system that conducts the *flue* gases or vent gases from the *flue collar* of a *gas appliance* to the *chimney* or *gas vent*, and may include a draft control device.

*Vertical service space* means a shaft oriented essentially vertically that is provided in a *building* to facilitate the installation of building services including mechanical, electrical and plumbing installations and facilities such as elevators, refuse chutes and linen chutes.

*Walkway* means a covered or roofed pedestrian thoroughfare used to connect 2 or more *buildings* in which the least horizontal dimension of the thoroughfare is less than 9 m.

*Wave action pool* means a *public pool* equipped with a means for inducing wave motion in the water.

*X-ray equipment* includes x-ray imaging systems, processing equipment and equipment directly related to the production of images for diagnosis or directly related to irradiation with x-rays for therapy.

*X-ray machine* means an electrically-powered device producing x-rays for the irradiation of a human being for a therapeutic or diagnostic purpose.

*X-ray room* means a defined area in which 1 or more permanently-fixed *x-ray machines* and *x-ray equipment* are located.

#### 1.1.4. Abbreviations

**1.1.4.1. Abbreviations of Proper Names.** The abbreviations of proper names in this Code shall have the meanings assigned to them in this Article. The appropriate addresses are shown in brackets following the name.

ACI ..... American Concrete Institute  
(P.O. Box 1090 Detroit, Michigan 48219 U.S.A.)

ACNBC ..... Associate Committee on the National Building Code  
(National Research Council of Canada, Ottawa, Ontario K1A 0R6)

- ASHRAE ..... American Society of Heating, Refrigerating and Air-Conditioning Engineers  
(1791 Tullie Circle N.E., Atlanta, Georgia 30329 U.S.A.)
- ASTM ..... American Society for Testing and Materials  
(1916 Race Street, Philadelphia, Pennsylvania 19103 U.S.A.)
- BRMD ..... Bureau of Radiation and Medical Devices  
(Department of National Health and Welfare 775 Brookefield Road, Ottawa, Ontario, K1A 1C1)
- CAN ..... National Standard of Canada designation  
(The number or name following the CAN designation represents the agency under whose auspices the standard is issued.  
CAN1 designates CGA,  
CAN2 designates CGSB,  
CAN3 designates CSA, and  
CAN4 designates ULC.)
- CGA ..... Canadian Gas Association  
(55 Scarsdale Road, Don Mills, Ontario M3B 2R3)
- CGSB ..... Canadian General Standards Board  
(Ottawa, Ontario K1A 1G6)
- CLA ..... Canadian Lumbermen's Association  
(27 Goulburn Avenue, Ottawa, Ontario K1N 8C7)
- CSA ..... Canadian Standards Association  
(178 Rexdale Boulevard, Rexdale, Ontario M9W 1R3)
- DBR ..... Division of Building Research  
(now called the Institute for Research in Construction)  
National Research Council of Canada, Ottawa, Ontario K1A 0R6
- FINA ..... Federation Internationale de Natation Amateur  
(208-3540 West 41st Avenue, Vancouver, British Columbia V6N 2G8)
- HI ..... Hydronics Institute  
(35 Russo Place, Berkeley Heights, New Jersey 07922 U.S.A.)
- HRAI ..... Heating, Refrigerating and Air-Conditioning Institute of Canada  
(5468 Dundas Street West, Islington, Ontario M9B 6E3)
- HUD ..... U.S. Department of Housing and Urban Development  
(Office of the Assistant Secretary for Policy Development and Research, Washington, D.C. 20410 U.S.A.)
- NBC ..... National Building Code of Canada  
(National Research Council of Canada, Ottawa, Ontario K1A 0R6)
- NFPA ..... National Fire Protection Association  
(Batterymarch Park, Quincy, Massachusetts 02269 U.S.A.)
- NLGA ..... National Lumber Grades Authority  
(1460-1055 West Hasting Street, Vancouver, British Columbia V6E 2G8)
- SMACNA ..... Sheet Metal and Air Conditioning Contractors National Association Inc.  
(8224 Old Courthouse Road, Vienna, Virginia 22180 U.S.A.)
- ULC ..... Underwriters' Laboratories of Canada  
(7 Crouse Road, Scarborough, Ontario M1R 3A9)



WCLIB ..... West Coast Lumber Inspection Bureau  
(6980 Southwest Varns Street, P.O. Box 23145, Portland, Oregon  
97223 U.S.A.)

WWPA ..... Western Wood Products Association  
(1500 Yeon Building, Portland, Oregon 97204 U.S.A.)

**1.1.4.2. Symbols and Other Abbreviations.** The symbols and other abbreviations in this Code shall have the meanings assigned to them in this Article.

cm	.....centimetre(s)
db	.....decibel(s)
°	.....degree(s)
°C	.....degree(s) Celsius
diam	.....diameter
g	.....gram(s)
ga	.....gauge
h	.....hour(s)
Hz	.....hertz
in	.....inch(es)
Inc.	.....Incorporated
J	.....joule(s)
kg	.....kilogram(s)
kN	.....kilonewton(s)
kPa	.....kilopascal(s)
kW	.....kilowatt(s)
L	.....litre(s)
L/s	.....litre(s) per second
lx	.....lux
m	.....metre(s)
m/s	.....metre(s) per second
max.	.....maximum
mg/L	.....milligram(s) per litre
min.	.....minimum
min	.....minute(s)
MJ	.....megajoule(s)
mm	.....millimetre(s)
MPa	.....megapascal(s)
N	.....newton
N/A	.....not applicable
ng	.....nanogram(s)
No.	.....number(s)
nom.	.....nominal
o.c.	.....on centre
s	.....second(s)
temp.	.....temperature
T&G	.....tongue and groove
W	.....watt(s)
wt	.....weight

**Part 2**  
**General Requirements**

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## Part 2

### General Requirements

#### Section 2.1 Application

##### 2.1.1. Buildings

**2.1.1.1. Parts 1 and 2.** Parts 1 and 2 apply to all *buildings*.

##### 2.1.1.2. Parts 3, 4, 5, and 6

(1) Except as provided in Article 2.1.1.5., Sentence 2.1.1.6.(1) and Subsection 2.1.2., Parts 3, 4, 5 and 6 apply to

- (a) all *buildings* used for
  - (i) Group A, *assembly occupancies*,
  - (ii) Group B, *institutional occupancies*, or
  - (iii) Group F, Division 1, *high hazard industrial occupancies*, and
- (b) all *buildings* exceeding 600 m<sup>2</sup> in *building area* or exceeding 3 storeys in *building height* used for *major occupancies* classified as
  - (i) Group C, *residential occupancies*,
  - (ii) Group D, *business and personal services occupancies*,
  - (iii) Group E, *mercantile occupancies*, or
  - (iv) Group F, Division 2 and 3, *medium and low hazard industrial occupancies*.

##### 2.1.1.3. Part 9

(1) Except as provided in Sentence 2.1.1.4.(2), 2.1.1.6.(1) and Article 2.1.1.5., Part 9 applies to *buildings*

- (a) of 3 storeys or less in *building height*,
- (b) having a *building area* not exceeding 600 m<sup>2</sup>, and
- (c) used for:
  - (i) Group C, *residential occupancies*,
  - (ii) Group D, *business and personal services occupancies*,
  - (iii) Group E, *mercantile occupancies*, and
  - (iv) Group F, Division 2 and 3, *medium and low hazard industrial occupancies*.

##### 2.1.1.4. Site Assembled and Factory-Built Buildings

(1) Except as provided in Sentence (2), and Article 2.1.1.7., this Code applies to the design and *construction* of site assembled buildings and manufactured *buildings*.

(2) Except as provided in Sentence (3), a manufactured *building* intended for *residential occupancy* is deemed to comply with this Code if it is designed and constructed in compliance with

- (a) CSA Z240.2.1. "Structural Requirements for Mobile Homes" and CSA Z240.8.1. "Light Duty Windows", if the *building* is constructed in sections not wider than 4.88 m, or
- (b) CSA A-277 "Procedure for Certification of Factory-Built Houses".

(3) The requirements of this Code shall apply to

- (a) *building* components designed and constructed outside the place of manufacture, and
- (b) site installation of such *buildings*.

##### 2.1.1.5. Farm Buildings

(1) Except as provided in Sentences (2) and (3), *farm buildings* shall conform to the requirements in the ACNBC Canadian Farm Building Code 1990.



(2) Articles 1.1.1.2. and 3.1.8.1. in the Canadian Farm Building Code do not apply to *farm buildings*.

(3) In the Canadian Farm Building Code, references in Articles 1.1.1.3., 1.2.1.2., 2.2.2.2., 2.3.1.1., 2.3.2.1., 3.1.1.1., 3.1.2.1. and 3.1.6.1. to the National Building Code of Canada are deemed to refer to this Code.

#### **2.1.1.6. Existing Buildings**

(1) Except as provided in Sentence (2), Part 11 applies to the design and *construction* of existing *buildings*, or parts of existing *buildings*, that have been in existence for at least five years.

(2) Where a *building* has been in existence for at least five years but includes an addition that has been in existence for less than five years, Part 11 applies to the entire *building*.

(3) Part 11 does not apply to a *building* regulated under the Hotel Fire Safety Act.

#### **2.1.1.7. Existing Buildings**

(1) Except as provided in Part 11, where an existing *building* is extended or subject to material alteration or repair, the Code is applicable only to the design and *construction* of the extensions and those parts of the *building* that are subject to the material alteration or repair.

(2) Where an existing previously occupied *building* is moved from the original location to be installed elsewhere, or is dismantled at the original location and moved to be reconstituted elsewhere, the Code applies only to changes to the design and *construction* of the *building* required as a result of moving the *building*.

#### **2.1.1.8. Radon**

(1) In addition to all other requirements, a *building* in the following designated areas shall be designed and constructed so that the annual average concentration of radon 222 does not exceed 250 millibecquerels per litre of air and the annual average concentration of the short lived daughters of radon 222 does not exceed 0.02 working levels inside the *building*:

- (a) The Town of Elliot Lake in the Territorial District of Algoma,
- (b) The Township of Faraday in the County of Hastings, and
- (c) The geographic Township of Hyman in the Territorial District of Sudbury.

#### **2.1.2. Designated Structures**

##### **2.1.2.1. Part 4**

(1) Part 4 applies to the following designated structures:

- (a) a retaining wall exceeding 1 m in exposed height adjacent to
  - (i) public property,
  - (ii) access to a building, or
  - (iii) private property to which the public is admitted,
- (b) the structural requirements for signs regulated by Section 3.8,
- (c) a communication tower exceeding 16.6 m above ground level,
- (d) a pedestrian bridge,
- (e) a crane runway,
- (f) an exterior storage tank and its supporting structure which is not regulated by the Gasoline Handling Act or the Energy Act,
- (g) a dish antenna or a solar collector that is mounted on a *building* and has a face area equal to or greater than 5 m<sup>2</sup>, and
- (h) an *outdoor pool* that has a water depth greater than 3.5 m at any point.

(2) *Public pools* are designated structures to which Section 3.11 applies.

#### **2.1.3. Building Size Determination**

##### **2.1.3.1. Building Divided by Firewalls**

(1) Where a *firewall* divides a *building*, each portion of the *building* so divided shall be considered as a separate *building*, except for the purpose of

- (a) *gross area* determination in Section 2.3., or
- (b) a fire alarm and detection system in Sentence 3.2.4.2.(1) or Article 9.10.17.1.

### 2.1.3.2. Building Divided by Vertical Fire Separations

(1) Except as permitted in Sentence (2), where portions of a *building* are completely separated by a vertical *fire separation* that has a *fire-resistance rating* of at least 1 h and extends through all *storeys* and *service spaces* of the separate portions, each separated portion is permitted to be considered as a separate *building* for the purpose of determining *building height* provided

- (a) each separated portion is not more than 3 *storeys* in *building height* and is used only for *residential occupancies*, and
- (b) the unobstructed path of travel for the fire fighter from the nearest *street* to one entrance of each separated portion is not more than 45 m.

(2) The vertical *fire separation* in Sentence (1) may terminate at the floor assembly immediately above a *basement* provided the *basement* conforms to Article 3.2.1.2.

## Section 2.2 Materials, Appliances, Systems and Equipment

### 2.2.1. General

**2.2.1.1. Characteristics of Materials, Appliances, Systems and Equipment.** All materials, *appliances*, systems and equipment installed to meet the requirements of this Code shall possess the necessary characteristics to perform their intended functions when installed in a *building*.

**2.2.1.2. Used Materials, Appliances and Equipment.** Unless otherwise specified, used materials, *appliances* and equipment may be reused when they meet the requirements of this Code for new materials and are satisfactory for the intended use.

### 2.2.2. Building Materials Evaluation Commission

**2.2.2.1. Application Fee.** The fee on an application to the Building Materials Evaluation Commission is \$500.00.

## Section 2.3 Design and General Review

### 2.3.1. Design

**2.3.1.1.(1)** Except as permitted in Sentences (2) and (3), the *construction*, including, for greater certainty, enlargement or alteration, of every *building* or part thereof described in Table 2.3.1.A. and this Article shall be designed and reviewed by an *architect*, *professional engineer* or both.

**Table 2.3.1.A.<sup>(4)</sup>**  
Forming Part of Sentence 2.3.1.1.(1)

<i>Building Classification by Major Occupancy</i>	<i>Building Description</i>	<i>Design and General Review by:</i>
<i>Assembly occupancy only</i>	<i>Every building</i>	<i>Architect and professional engineer (1)</i>
<i>Assembly occupancy and any other major occupancy except industrial</i>	<i>Every building</i>	<i>Architect and professional engineer (1)</i>
<i>Institutional occupancy only</i>	<i>Every building</i>	<i>Architect and professional engineer (1)</i>
<i>Institutional occupancy and any other major occupancy except industrial</i>	<i>Every building</i>	<i>Architect and professional engineer (1)</i>
Column 1	2	3

Table 2.3.1.A.<sup>(4)</sup>—(Cont'd)  
Forming Part of Sentence 2.3.1.1.(1)

<i>Building Classification by Major Occupancy</i>	<i>Building Description</i>	<i>Design and General Review by:</i>
<i>Residential occupancy only</i>	<i>Every building that exceeds 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
	<i>Every building that exceeds 600 m<sup>2</sup> in gross area and that contains a residential occupancy other than a dwelling unit or dwelling units</i>	<i>Architect (2)</i>
<i>Residential occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area and contains a dwelling unit above another dwelling unit</i>	<i>Architect (2)</i>
	<i>Every building that exceeds 600 m<sup>2</sup> in building area, contains 3 or more dwelling units and has no dwelling unit above another dwelling unit</i>	<i>Architect (2)</i>
<i>Residential occupancy and any other major occupancy except industrial, assembly or institutional occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
<i>Business and personal services occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
<i>Business and personal services occupancy and any other major occupancy except industrial, assembly or institutional occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
<i>Mercantile occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
<i>Mercantile occupancy and any other major occupancy except industrial, assembly or institutional occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer (1)</i>
<i>Industrial occupancy only and where there are no subsidiary occupancies</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect or professional engineer (3)</i>
<i>Industrial occupancy and one or more other major occupancies where the portion of the area occupied by one of the other major or subsidiary occupancies exceeds 600 m<sup>2</sup></i>	<i>The non-industrial portion of every building</i>	<i>Architect and professional engineer (1)</i>
	<i>The industrial portion of every building</i>	<i>Architect or professional engineer (3)</i>
<i>Industrial occupancy and one or more other major occupancies where no portion of the area occupied by one of the other major or subsidiary occupancies exceeds 600 m<sup>2</sup></i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect or professional engineer (3)</i>
Column 1	2	3



**Notes To Table 2.3.1.A.**

- (1) An *architect* shall provide services within the practice of architecture and a *professional engineer* shall provide the services within the practice of professional engineering.
- (2) An *architect* may engage a *professional engineer* to provide services within the practices of professional engineering.
- (3) Only a *professional engineer* may provide services within the practice of professional engineering.
- (4) Requirements for design and general review by an *architect* or *professional engineer* or a combination of both for the *construction*, enlargement or alteration of a *building* are set out in the Architects Act, 1984 and the Professional Engineers Act, 1984.

(2) An *architect* may provide the services within the practice of professional engineering in any *building* described in Table 2.3.1.A., or a *professional engineer* may provide the services within the practice of architecture in any *building* described in Table 2.3.1.A. where to do so does not constitute a substantial part of the services provided by the other profession related to the *construction* of the *building* and is necessary

- (a) for the *construction* of the *building* and is incidental to the other services provided by the *architect* or *professional engineer*, or
- (b) for coordination purposes.

(3) The requirement for an *architect* does not apply to the preparation or provision of a design for interior space for a *building*, including finishes, fixed or loose furnishings, equipment, fixtures and partitioning of space, and related exterior elements such as signs, finishes and glazed openings used for display purposes, that does not affect or is not likely to affect,

- (a) the structural integrity,
- (b) a fire safety system or *fire separation*,
- (c) a main entrance or *public corridor* on a floor,
- (d) an *exit* to a public thoroughfare or to the exterior,
- (e) the *construction* or location of an exterior wall, or
- (f) the usable floor space through the addition of a *mezzanine*, infill or other similar element,

of the *building*.

(4) Where a *building* or part thereof described in Table 2.3.1.A. is designed by an *architect* or a *professional engineer* or a combination of both as required by this Article, all plans, sketches, drawings, graphic representations, specifications and other documents that are prepared by an *architect*, *professional engineer* or both and that form the basis for the issuance of a building permit or any changes thereto authorized by the *chief official* shall bear the signature and seal of the *architect*, *professional engineer* or both, as applicable.

(5) Where the *foundations* of a *building* are to be constructed below the level of the footings of an adjacent *building* and within the angle of repose of the *soil*, as drawn from the bottom of the footings, the *foundations* shall be designed by a *professional engineer*.

(6) The thermal design of a *building* in accordance with Section 9.38 shall be prepared and provided by an *architect* or *professional engineer* or a combination of both.

**2.3.2. General Review****2.3.2.1. General Review by Architect or Professional Engineer**

(1) Except as permitted in Sentence (2), a person who intends to *construct* or have constructed a *building* required to be designed by an *architect*, *professional engineer* or both, shall ensure that an *architect*, *professional engineer* or both are retained to undertake the general review of the *construction* of the *building* in accordance with the performance standards of the Ontario Association of Architects or the Association of Professional Engineers of Ontario, as applicable, to determine whether the *construction* is in general conformity with the plans, sketches, drawings, graphic representations, specifications and other documents that are prepared by an *architect*, *professional engineer* or both and that form the basis for the issuance of a *building* permit or any changes thereto authorized by the *chief official*; written reports arising out of the general review shall be forwarded to the *chief official* by such person.

(2) An *architect* or a *professional engineer* need not be retained to undertake the general review of *construction* of a *building* where the *building* is designed in accordance with Section 9.38.

**2.3.2.2.(1) Only an architect may carry out or provide the general review of the construction of a building**

- (a) that is constructed in accordance with a design prepared or provided by an *architect*, or

- (b) in relation to services that are provided by an *architect* in connection with the design in accordance with which the *building* is constructed.
- (2) Only a *professional engineer* may carry out or provide the general review of the *construction* of a *building*
  - (a) that is constructed in accordance with a design prepared or provided by a *professional engineer*, or
  - (b) in relation to services that are provided by a *professional engineer* in connection with the design in accordance with which the *building* is constructed.

**2.3.2.3.(1)** The applicant for a permit respecting the *demolition* of a *building* shall retain a *professional engineer* to undertake the general review of the project during *demolition*, where

- (a) the *building* exceeds 3 storeys in *building height* or 600 m<sup>2</sup> in *building area*,
- (b) the *building* structure includes pre-tensioned or post-tensioned members,
- (c) it is proposed that the *demolition* will extend below the level of the footings of any adjacent *building* and occur within the angle of repose of the *soil*, drawn from the bottom of such footings, or
- (d) explosives or a laser are to be used during the course of *demolition*.

## Section 2.4 Permits and Inspections

### 2.4.1. Permits

#### 2.4.1.1. Requirement for Permits

(1) A person is exempt from the requirement to obtain a permit under Section 5 of the Act

- (a) for the *demolition* of a *building* located on a farm, or
- (b) for the *construction* or *demolition* of a *building* in territory without municipal organization.

(2) Where a permit is required for the *demolition* of a *building* in Sentence 2.3.2.3.(1), descriptions of the structural design characteristics of the *building* and the method of *demolition* shall be included in the application for a permit to demolish the *building*.

(3) No person shall commence *demolition* of a *building* or any part of a *building* before the *building* has been vacated by the occupants except where the safety of the occupants is not affected.

#### 2.4.2. Site Documents

**2.4.2.1.** Where a permit has been issued pursuant to the Act, the person to whom it is issued shall have the permit or a copy thereof posted at all times during *construction* or *demolition* in a conspicuous place on the property in respect of which the permit was issued.

**2.4.2.2.(1)** The person in charge of the *construction* of the *building* shall keep and maintain on the site of the *construction*

- (a) at least one copy of drawings and specifications certified by the *chief official* or a person designated by the *chief official* to be a copy of those submitted with the application for the permit to *construct* the *building*, together with changes that are authorized by the *chief official* or a person designated by the *chief official*, and
- (b) authorization or facsimiles thereof received from the Building Materials Evaluation Commission, including specified terms and conditions.

#### 2.4.3. Occupancy of Unfinished Building

**2.4.3.1.(1)** Except as permitted in Sentence 2.4.3.2.(1), a person may occupy or permit to be occupied any *building* or part thereof that has not been fully completed at the date of occupation where the *chief official* or a person designated by the *chief official* has issued a permit authorizing occupation of the *building* or part thereof prior to its completion in accordance with Sentence (2).

(2) The *chief official* or a person designated by the *chief official* shall issue a permit authorizing occupation of a *building*, where

- (a) the structure of the *building* or part thereof is completed to the roof,
- (b) the enclosing walls of the *building* or part thereof are completed to the roof,
- (c) the walls enclosing the space to be occupied are completed, including balcony *guards*,

- (d) all required *fire separations* and *closures* are completed on all *storeys* to be occupied,
- (e) all required *exits* are completed and fire separated including all doors, door hardware, self-closing devices, balustrades and hand-rails from the uppermost floor to be occupied down to *grade* level and below if an *exit* connects with lower *storeys*,
- (f) all shafts including *closures* are completed to the floor-ceiling assembly above the *storey* to be occupied and have a temporary *fire separation* at such assembly,
- (g) measures have been taken to prevent access to parts of the building and site that are incomplete or still under *construction*,
- (h) floors, halls, lobbies and required *means of egress* are kept free of loose materials and other hazards,
- (i) if service rooms should be in operation, required *fire separations* are completed and all *closures* installed,
- (j) all *water, drainage* and *venting systems* are complete and tested as operational for the *storeys* to be occupied,
- (k) required lighting in corridors, stairways and *exits* is completed and operational up to and including all *storeys* to be occupied,
- (l) required standpipe, sprinkler and fire alarm systems are complete and operational up to and including all *storeys* to be occupied, together with required pumper connections for such standpipes and sprinklers,
- (m) required fire extinguishers have been installed on all *storeys* to be occupied,
- (n) main garbage rooms, chutes and ancillary services thereto are completed to *storeys* to be occupied, and
- (o) required fire fighting access routes have been provided and are accessible.

**2.4.3.2.(1)** A person may occupy or permit to be occupied a *building* intended for *residential occupancy* that has not been fully completed at the date of occupation provided that

- (a) the *building*
  - (i) is not more than 3 *storeys* in *building height*,
  - (ii) has not more than 1 *dwelling unit* above another *dwelling unit*,
  - (iii) has not more than 2 *dwelling units* sharing a common *means of egress*, and
  - (iv) has no accommodation for tourists,
- (b) the following *building* components and systems are complete and operational:
  - (i) required *exits*, handrails and *guards*, fire alarm and detection systems, and *fire separations*, and
  - (ii) water supply, sewage disposal, lighting and heating systems, and
- (c) where applicable, the *building* conforms to Article 2.1.1.8.

**2.4.3.3.** Where a person has occupied or permitted the occupancy of a *building* under this Subsection, such person shall notify the *chief official* forthwith upon completion of the *building*.

#### **2.4.4. Fire Department Inspection**

**2.4.4.1.** Where the council of a *municipality* assigns to an inspector who is the chief of the fire department of the municipality specific responsibility for the enforcement of any portion of this Code respecting fire safety matters, the *chief official* shall not issue a permit to *construct a building* unless the inspector approves as complying with such portion of this Code the drawings submitted with the application for the permit.

#### **2.4.5. Notices to Chief Official**

**2.4.5.1.(1)** Where the council of a *municipality* passes a by-law pursuant to Clause 5 (2) (e) of the Act, the person to whom a permit has been issued shall notify the *chief official*,

- (a) of the commencement of the *construction* of the *building*,
- (b) of the readiness to *construct* the footings,



- (c) of the substantial completion of the footings and foundations,
- (d) where the *building* is within the scope of Part 9, of the substantial completion of
  - (i) structural framing,
  - (ii) insulation and vapour barriers, and
  - (iii) ductwork and piping for heating and *air-conditioning* systems,
- (e) where the *building* is within the scope of parts of this Code other than Part 9, of the substantial completion of
  - (i) structural framing of each *storey*,
  - (ii) insulation and vapour barriers, and
  - (iii) roughing-in of heating, ventilation, *air-conditioning* and air-contaminant extraction equipment,
- (f) of the commencement of the *construction* of
  - (i) masonry fireplaces and *masonry chimneys*,
  - (ii) factory-built fireplaces and allied *chimneys*,
  - (iii) *stoves, ranges, space heaters* and add-on *furnaces* using solid fuels and allied *chimneys*,
- (g) of the substantial completion of all required *fire separations* and *closures* and all fire protection systems including standpipe, sprinkler, fire alarm and emergency lighting systems,
- (h) of the substantial completion of interior finishes and heating, ventilating, *air-conditioning* and air-contaminant extraction equipment,
- (i) of the substantial completion of exterior cladding, fire access routes and site grading, and
- (j) of the completion and availability of drawings of the *building* as constructed.

## Section 2.5 Climatic Data

### 2.5.1. Climatic and Seismic Values

**2.5.1.1.** The climatic and seismic values required for the design of *buildings* under this Code shall be in conformance with the values provided in Table 2.5.1.A.

**TABLE 2.5.1.A.**  
Forming part of Article 2.5.1.1.  
**DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO**

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa						
Ailsa Craig .....	-17	-19	30	23	4 000	25	89	920	2.0	0.4	1.60	1.40	0.40	0.50	0.62	0	0	0.00
Ajax .....	-20	-22	30	23	4 080	23	76	800	0.9	0.4	0.94	0.85	0.43	0.52	0.64	1	1	0.05
Alexandria .....	-24	-26	30	23	4 700	28	76	940	2.2	0.4	1.72	1.50	0.30	0.37	0.45	4	2	0.10
Alliston .....	-23	-25	29	23	4 400	28	114	740	1.8	0.4	1.48	1.30	0.22	0.29	0.38	1	0	0.05
Almonte .....	-26	-28	30	23	4 774	25	76	736	2.3	0.4	1.78	1.55	0.30	0.37	0.46	4	2	0.10
Armstrong .....	-39	-42	28	21	6 991	23	99	738	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00
Arnprior .....	-27	-29	30	23	4 791	23	76	746	2.3	0.4	1.78	1.55	0.27	0.34	0.42	4	2	0.10
Atikokan .....	-34	-37	29	22	6 209	25	93	724	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00
Aurora .....	-21	-23	30	23	4 325	28	102	800	1.8	0.4	1.48	1.30	0.30	0.39	0.50	1	0	0.05
Bancroft .....	-27	-29	29	22	4 919	25	83	880	2.8	0.4	2.08	1.80	0.23	0.29	0.36	2	1	0.05
Barrie .....	-24	-26	29	22	4 575	28	127	950	2.3	0.4	1.78	1.55	0.21	0.29	0.39	1	1	0.05
Barriefield .....	-22	-24	27	23	4 200	23	114	870	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05
Beaverton .....	-24	-26	30	22	4 400	28	140	860	2.0	0.4	1.60	1.40	0.24	0.32	0.42	1	1	0.05
Belleville .....	-22	-24	29	23	4 129	23	106	855	1.6	0.4	1.36	1.20	0.32	0.39	0.48	1	1	0.05
Belmont .....	-17	-19	30	23	4 000	25	89	980	1.6	0.4	1.36	1.20	0.35	0.45	0.58	0	0	0.00
Big Trout Creek .....	-27	-29	28	21	5 300	28	89	940	2.9	0.2	1.94	1.65	0.24	0.29	0.36	2	1	0.05
Bordon CFB .....	-23	-25	29	22	4 550	28	114	810	2.0	0.4	1.60	1.40	0.21	0.29	0.39	1	0	0.05
Bracebridge .....	-26	-28	29	22	4 800	25	114	1 020	2.8	0.4	2.08	1.80	0.19	0.25	0.33	1	1	0.05
Bradford .....	-23	-25	30	23	4 241	28	114	716	1.9	0.4	1.54	1.35	0.24	0.32	0.42	1	0	0.05
Brampton .....	-19	-21	30	23	4 321	28	178	816	1.2	0.4	1.12	1.00	0.32	0.39	0.49	1	0	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

**Notes:**

1. The composite load is 60% of the ground snow load plus the rain load.
2. The composite load is 50% of the ground snow load plus the rain load.

TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min. Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½% °C						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>s</sub>	Z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>r</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa							
Brantford .....	-17	-19	30	23	3 922	23	103	746	1.2	0.4	1.12	1.00	0.31	0.37	0.44	1	0	0.05	
Brighton .....	-21	-23	29	23	4 200	23	76	830	1.5	0.4	1.30	1.15	0.42	0.50	0.60	1	1	0.05	
Brockville .....	-23	-25	29	23	4 230	25	89	974	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	1	0.05	
Burks Falls .....	-26	-28	29	21	5 293	25	102	1 066	2.5	0.4	1.90	1.65	0.20	0.26	0.34	1	1	0.05	
Burlington .....	-17	-19	31	23	3 818	23	77	777	0.8	0.4	0.88	0.80	0.36	0.43	0.51	1	0	0.05	
Cambridge .....	-18	-20	29	23	4 100	25	108	899	1.5	0.4	1.30	1.15	0.26	0.32	0.39	1	0	0.05	
Campbellford .....	-23	-26	30	23	4 400	25	111	811	1.6	0.4	1.36	1.20	0.29	0.37	0.47	1	1	0.05	
Cannington .....	-24	-26	30	23	4 550	28	127	890	2.0	0.4	1.60	1.40	0.24	0.32	0.42	1	1	0.05	
Carleton Place .....	-25	-27	30	23	4 700	25	69	787	2.3	0.4	1.78	1.55	0.30	0.37	0.46	4	2	0.10	
Cavan .....	-22	-25	30	23	4 425	28	76	770	1.8	0.4	1.48	1.30	0.31	0.39	0.50	1	1	0.05	
Centralia .....	-17	-19	30	23	4 041	25	80	1 033	2.1	0.4	1.66	1.45	0.37	0.48	0.60	0	0	0.00	
Chapleau .....	-35	-38	27	21	6 214	23	104	834	3.7	0.4	2.62	2.25	0.19	0.25	0.31	0	0	0.00	
Chatham .....	-16	-18	31	24	3 607	28	107	808	0.9	0.4	0.94	0.85	0.32	0.39	0.48	0	0	0.00	
Chesley .....	-19	-21	29	22	4 450	28	76	1 120	2.6	0.4	1.96	1.70	0.33	0.43	0.55	1	0	0.05	
Clinton .....	-17	-19	29	23	4 100	23	89	950	2.4	0.4	1.84	1.60	0.37	0.48	0.60	0	0	0.00	
Cobocouk .....	-25	-27	29	22	4 750	25	127	909	2.3	0.4	1.78	1.55	0.22	0.29	0.37	1	1	0.05	
Cobourg .....	-21	-23	30	23	4 241	23	76	822	1.1	0.4	1.06	0.95	0.46	0.55	0.65	1	1	0.05	
Cochrane .....	-34	-36	29	21	6 398	20	87	885	2.6	0.3	1.86	1.60	0.26	0.32	0.39	1	0	0.05	
Colborne .....	-21	-23	29	23	4 050	23	76	830	1.5	0.4	1.30	1.15	0.44	0.52	0.62	1	1	0.05	
Collingwood .....	-22	-24	29	22	4 242	28	128	858	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.



TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	
	2½ %, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>r</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa						
Cornwall .....	-23	-25	30	23	4 418	28	71	928	2.0	0.4	1.60	1.40	0.30	0.37	0.46	4	2	0.10
Corunna .....	-16	-18	31	23	3 800	23	89	800	0.9	0.4	0.94	0.85	0.35	0.43	0.52	0	0	0.00
Deep River .....	-29	-32	30	22	5 125	23	89	790	2.3	0.4	1.78	1.55	0.20	0.24	0.28	4	2	0.10
Deseronto .....	-22	-24	28	23	4 100	23	89	870	1.7	0.4	1.42	1.25	0.32	0.39	0.48	1	1	0.05
Dorchester .....	-18	-20	30	23	4 050	28	89	890	1.7	0.4	1.42	1.25	0.33	0.43	0.55	0	0	0.00
Dorion .....	-33	-35	28	21	5 900	20	76	685	2.6	0.4	1.96	1.70	0.25	0.29	0.34	0	0	0.00
Dresden .....	-16	-18	31	24	3 738	28	76	765	0.9	0.4	0.94	0.85	0.32	0.39	0.48	0	0	0.00
Dryden .....	-34	-36	27	22	6 087	25	114	698	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00
Dunnville .....	-15	-17	30	24	3 851	23	102	905	1.8	0.4	1.48	1.30	0.33	0.39	0.45	1	0	0.05
Durham .....	-20	-22	29	22	4 671	28	86	1 040	2.6	0.4	1.96	1.70	0.31	0.39	0.50	1	0	0.05
Dutton .....	-16	-18	31	24	3 800	28	89	870	1.2	0.4	1.12	1.00	0.34	0.43	0.53	0	0	0.00
Earlton .....	-33	-36	30	21	5 915	23	99	822	2.4	0.4	1.84	1.60	0.32	0.40	0.51	1	1	0.05
Edison .....	-34	-36	28	22	6 050	25	89	680	2.2	0.3	1.62	1.40	0.20	0.24	0.28	0	0	0.00
Elmvale .....	-24	-26	29	22	4 300	28	127	900	2.4	0.4	1.84	1.60	0.24	0.32	0.42	1	1	0.05
Embro .....	-18	-20	29	23	4 200	28	89	890	1.8	0.4	1.48	1.30	0.33	0.43	0.54	0	0	0.00
Englehart .....	-33	-36	30	21	5 900	23	87	892	2.3	0.4	1.78	1.55	0.29	0.37	0.47	1	1	0.05
Espanola .....	-25	-27	28	21	4 950	23	89	840	2.1	0.4	1.66	1.45	0.28	0.37	0.48	1	0	0.05
Exeter .....	-17	-19	30	23	4 101	25	89	962	2.2	0.4	1.72	1.50	0.37	0.48	0.60	0	0	0.00
Fenelon Falls .....	-25	-27	30	23	4 650	25	133	859	2.1	0.4	1.66	1.45	0.25	0.32	0.41	1	1	0.05
Fergus .....	-20	-22	29	23	4 615	33	118	880	2.0	0.4	1.60	1.40	0.26	0.32	0.40	1	0	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.

TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Peprn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January	July 2½%		Ground Loads, kPa					Composite Load, kPa	1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v			
		2½%, °C	1%, °C													Dry, °C	Wet, °C	
Forest .....	-16	-18	31	23	3 839	23	87	834	1.8	0.4	1.48	1.30	0.39	0.48	0.58	0	0	0.00
Fort Erie .....	-15	-17	30	24	3 707	23	102	995	2.4	0.4	1.84	1.60	0.36	0.43	0.50	2	0	0.05
Fort Erie (Ridgeway) .....	-15	-17	30	24	3 650	28	102	990	2.3	0.4	1.78	1.55	0.37	0.43	0.50	2	0	0.05
Fort Frances .....	-33	-35	29	22	5 624	25	114	696	2.1	0.3	1.56	1.35	0.21	0.25	0.29	0	0	0.00
Gananoque .....	-22	-24	28	23	4 150	23	89	870	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05
Geraldton .....	-35	-38	28	21	6 753	20	65	697	2.7	0.4	2.02	1.75	0.20	0.24	0.28	0	0	0.00
Glencoe .....	-16	-18	31	24	4 000	28	66	850	1.4	0.4	1.24	1.10	0.31	0.39	0.49	0	0	0.00
Goderich .....	-16	-18	29	23	3 900	23	84	910	2.2	0.4	1.72	1.50	0.40	0.50	0.62	0	0	0.00
Gore Bay .....	-23	-25	29	21	4 930	23	92	866	2.4	0.4	1.84	1.60	0.30	0.36	0.43	0	0	0.00
Graham .....	-37	-40	29	22	6 626	23	62	817	2.4	0.3	1.74	1.50	0.21	0.25	0.29	0	0	0.00
Gravenhurst .....	-26	-28	29	22	4 800	25	114	1 020	2.5	0.4	1.90	1.65	0.19	0.25	0.33	1	1	0.05
Gravenhurst (Muskoka Airport) .....	-26	-28	29	22	4 911	25	115	1 009	2.6	0.4	1.96	1.70	0.19	0.25	0.33	1	1	0.05
Grimsby .....	-16	-18	30	23	3 618	23	123	876	0.8	0.4	0.88	0.80	0.36	0.43	0.50	1	0	0.05
Guelph .....	-19	-21	29	23	4 304	28	103	833	1.7	0.4	1.42	1.25	0.25	0.30	0.36	1	0	0.05
Guhrrie .....	-24	-26	29	22	4 520	28	127	870	2.3	0.4	1.78	1.55	0.21	0.29	0.39	1	1	0.05
Haileybury .....	-32	-35	30	21	5 427	23	65	849	2.2	0.4	1.72	1.50	0.32	0.39	0.49	2	1	0.05
Haldimand (Caledonia) ...	-17	-19	30	23	3 850	23	104	913	1.1	0.4	1.06	0.95	0.31	0.37	0.44	1	0	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.

**TABLE 2.5.1.A. (Cont'd)**  
Forming part of Article 2.5.1.1.  
**DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO**

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads					Hourly Wind Pressures			Seismic Data		
	January		July 2½%						Ground Loads, kPa		Composite Load, kPa			1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>u</sub>	Z <sub>v</sub>	Zonal velocity ratio, v
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa							
Haldimand (Hagersville) .	-16	-18	30	23	3 987	25	283	842	1.2	0.4	1.12	1.00	0.33	0.39	0.46	1	0	0.05	
Haliburton .....	-27	-29	29	22	4 993	25	103	971	2.7	0.4	2.02	1.75	0.19	0.25	0.31	1	1	0.05	
Halton Hills (Georgetown)	-19	-21	30	23	4 355	28	128	837	1.3	0.4	1.18	1.05	0.27	0.34	0.42	1	0	0.05	
Hamilton .....	-17	-19	31	23	3 827	23	117	799	0.8	0.4	0.88	0.80	0.36	0.43	0.50	1	0	0.05	
Hanover .....	-19	-21	30	22	4 340	28	76	877	2.4	0.4	1.84	1.60	0.34	0.43	0.54	1	0	0.05	
Hastings .....	-23	-26	30	23	4 400	28	89	790	1.8	0.4	1.48	1.30	0.29	0.37	0.47	1	1	0.05	
Hawkesbury .....	-25	-27	30	23	4 800	23	89	961	2.1	0.4	1.66	1.45	0.31	0.37	0.45	4	2	0.10	
Hearst .....	-34	-36	28	21	6 500	20	63	846	2.6	0.3	1.86	1.60	0.20	0.25	0.32	0	0	0.00	
Honey Harbour	-24	-26	29	22	4 400	23	127	950	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	1	0.05	
Hornepayne .....	-37	-40	28	21	6 545	20	83	734	3.3	0.4	2.38	2.05	0.19	0.25	0.31	0	0	0.00	
Huntsville .....	-26	-29	29	22	4 780	25	104	971	2.7	0.4	2.02	1.75	0.19	0.25	0.33	1	1	0.05	
Ingersoll .....	-18	-20	30	23	4 000	28	89	890	1.6	0.4	1.36	1.20	0.33	0.43	0.54	0	0	0.00	
Iroquois Falls ...	-33	-36	29	21	6 200	20	63	780	2.7	0.3	1.92	1.65	0.30	0.37	0.45	1	0	0.05	
Jelicoe .....	-36	-39	29	21	6 600	20	76	710	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00	
Kapuskasing .....	-33	-35	28	21	6 438	20	80	858	2.6	0.3	1.86	1.60	0.23	0.28	0.34	0	0	0.00	
Kemptville .....	-25	-27	30	23	4 622	25	73	867	2.1	0.4	1.66	1.45	0.30	0.37	0.46	4	2	0.10	
Kenora .....	-33	-36	28	22	5 938	25	128	623	2.1	0.3	1.56	1.35	0.20	0.24	0.28	0	0	0.00	
Killaloe .....	-28	-31	30	22	5 082	23	62	674	2.5	0.4	1.90	1.65	0.24	0.29	0.36	3	1	0.05	
Kincardine .....	-17	-19	28	22	4 100	23	76	890	2.4	0.4	1.84	1.60	0.40	0.50	0.62	0	0	0.00	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

**Notes:**

1. The composite load is 60% of the ground snow load plus the rain load.
2. The composite load is 50% of the ground snow load plus the rain load.



TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Peppn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½%						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa							
Kingston .....	-22	-24	27	23	4 251	23	119	870	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05	
Kinmount .....	-26	-28	29	22	4 800	25	102	950	2.5	0.4	1.90	1.65	0.20	0.26	0.34	1	1	0.05	
Kirkland Lake ..	-33	-36	30	21	6 113	20	97	856	2.7	0.3	1.92	1.65	0.29	0.37	0.46	1	1	0.05	
Kitchener .....	-19	-21	29	23	4 146	28	175	897	1.8	0.4	1.48	1.30	0.27	0.34	0.42	1	0	0.05	
Lakefield .....	-24	-26	30	23	4 550	28	89	770	2.0	0.4	1.60	1.40	0.27	0.34	0.43	1	1	0.05	
Lansdowne House .....	-39	-41	28	21	7 199	18	78	666	2.7	0.2	1.82	1.55	0.24	0.29	0.35	0	0	0.00	
Leamington .....	-15	-17	31	24	3 556	28	106	816	0.7	0.4	0.82	0.75	0.35	0.43	0.52	0	0	0.00	
Lindsay .....	-24	-26	30	23	4 513	25	97	856	2.1	0.4	1.66	1.45	0.26	0.34	0.43	1	1	0.05	
Lion's Head .....	-19	-21	27	22	4 490	25	76	890	2.5	0.4	1.90	1.65	0.33	0.43	0.54	1	0	0.05	
Listowel .....	-19	-21	29	23	4 811	30	144	951	2.4	0.4	1.84	1.60	0.34	0.43	0.53	1	0	0.05	
London .....	-18	-20	30	23	4 133	28	83	909	1.7	0.4	1.42	1.25	0.36	0.48	0.61	0	0	0.00	
Lucan .....	-17	-19	30	23	4 150	25	118	927	2.1	0.4	1.66	1.45	0.39	0.50	0.63	0	0	0.00	
Maitland .....	-23	-25	29	23	4 200	25	76	960	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	1	0.05	
Markdale .....	-20	-22	29	22	4 700	28	76	1 030	3.1	0.4	2.26	1.95	0.29	0.37	0.47	1	0	0.05	
Markham .....	-20	-22	31	24	4 245	25	79	802	1.2	0.4	1.12	1.00	0.39	0.48	0.59	1	0	0.05	
Martin .....	-36	-39	29	22	6 248	25	114	751	2.4	0.3	1.74	1.50	0.21	0.25	0.29	0	0	0.00	
Matheson .....	-33	-36	29	21	6 250	20	76	830	2.6	0.3	1.86	1.60	0.30	0.37	0.46	1	1	0.05	
Mattawa .....	-29	-31	30	22	5 300	23	89	830	1.9	0.4	1.54	1.35	0.24	0.29	0.35	3	1	0.05	
Midland .....	-23	-26	29	22	4 257	25	96	1 035	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	1	0.05	
Milton .....	-18	-20	30	23	4 138	25	127	875	1.2	0.4	1.12	1.00	0.32	0.39	0.48	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.

TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January		July 2½%						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa						
Milverton .....	-19	-21	29	23	4 550	30	76	980	2.2	0.4	1.72	1.50	0.31	0.39	0.49	1	0	0.05
Minden .....	-26	-29	29	22	4 967	25	94	971	2.5	0.4	1.90	1.65	0.19	0.25	0.31	1	1	0.05
Mississauga .....	-18	-20	30	23	4 000	25	140	760	1.0	0.4	1.00	0.90	0.37	0.45	0.55	1	0	0.05
Mississauga (Port Credit) .	-18	-20	30	23	3 900	25	140	760	0.8	0.4	0.88	0.80	0.37	0.45	0.55	1	0	0.05
Mitchell .....	-18	-20	29	23	4 519	25	72	840	2.2	0.4	1.72	1.50	0.35	0.45	0.57	0	0	0.00
Moosonee .....	-36	-38	28	21	7 011	18	63	728	2.0	0.3	1.50	1.30	0.19	0.24	0.29	0	0	0.00
Morrisburg .....	-23	-25	30	23	4 550	25	114	928	2.1	0.4	1.66	1.45	0.30	0.37	0.46	4	2	0.10
Mount Forest ...	-21	-23	29	22	4 694	30	84	964	2.5	0.4	1.90	1.65	0.29	0.37	0.47	1	0	0.05
Nakina .....	-35	-37	28	21	6 816	20	70	811	2.6	0.4	1.96	1.70	0.20	0.24	0.28	0	0	0.00
Nanticoke (Jarvis) .....	-16	-18	30	23	3 875	28	102	850	1.3	0.4	1.18	1.05	0.33	0.39	0.47	1	0	0.05
Nanticoke (Port Dover) .	-15	-17	30	24	3 881	25	102	948	1.1	0.4	1.06	0.95	0.36	0.43	0.51	1	0	0.05
Napanee .....	-22	-24	28	23	4 150	23	89	870	1.7	0.4	1.42	1.25	0.32	0.39	0.48	2	1	0.05
Newcastle .....	-20	-22	30	23	4 200	23	76	810	1.4	0.4	1.24	1.10	0.46	0.55	0.65	1	1	0.05
Newcastle (Bowmanville)	-20	-22	30	23	4 220	23	76	803	1.3	0.4	1.18	1.05	0.46	0.55	0.66	1	1	0.05
New Liskeard ...	-32	-35	30	21	5 664	23	82	749	2.1	0.4	1.66	1.45	0.31	0.39	0.49	2	1	0.05
Newmarket .....	-22	-24	30	23	4 395	28	102	797	1.8	0.4	1.48	1.30	0.26	0.34	0.44	1	1	0.05
Niagara Falls ....	-16	-18	30	23	3 662	23	95	942	1.8	0.4	1.48	1.30	0.33	0.39	0.47	2	0	0.05
North Bay .....	-28	-30	28	21	4 990	28	96	930	2.0	0.4	1.60	1.40	0.26	0.31	0.37	2	1	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

## Notes:

1. The composite load is 60% of the ground snow load plus the rain load.
2. The composite load is 50% of the ground snow load plus the rain load.

TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Peprn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January	July 2½%		Composite Load, kPa					Ground Loads, kPa	Rain S <sub>r</sub> , kPa	Snow S <sub>s</sub> , kPa	1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>s</sub>	Z <sub>v</sub>	Zonal velocity ratio, v		
		2½%, °C	1%, °C															Dry, °C	Wet, °C
Norwood .....	-24	-26	30	23	4 531	89	785	1.9	0.4	1.54	1.35	0.29	0.37	0.47	1	1	0.05		
Oakville .....	-18	-20	30	23	3 915	74	799	0.8	0.4	0.88	0.80	0.37	0.45	0.54	1	0	0.05		
Orangeville .....	-21	-23	29	23	4 775	101	789	2.1	0.4	1.66	1.45	0.25	0.32	0.41	1	0	0.05		
Orillia .....	-25	-27	29	22	4 690	25	907	2.2	0.4	1.72	1.50	0.19	0.26	0.35	1	1	0.05		
Oshawa .....	-19	-21	30	23	3 968	23	864	1.3	0.4	1.18	1.05	0.43	0.52	0.64	1	1	0.05		
Ottawa .....	-25	-27	30	23	4 634	23	846	2.2	0.4	1.72	1.50	0.30	0.37	0.46	4	2	0.10		
Owen Sound .....	-19	-21	29	22	4 236	28	1 024	2.6	0.4	1.96	1.70	0.33	0.43	0.55	1	0	0.05		
Pagwa River .....	-34	-36	28	21	6 595	20	902	2.2	0.4	1.72	1.50	0.19	0.25	0.31	0	0	0.00		
Paris .....	-17	-19	30	23	4 025	23	860	1.3	0.4	1.18	1.05	0.31	0.37	0.45	1	0	0.05		
Parkhill .....	-16	-18	31	23	3 900	23	860	1.9	0.4	1.54	1.35	0.40	0.50	0.61	0	0	0.00		
Parry Sound .....	-24	-26	28	21	4 730	23	1 094	2.6	0.4	1.96	1.70	0.24	0.34	0.46	1	1	0.05		
Pelham (Fonthill) .....	-15	-17	30	23	3 700	23	870	2.1	0.4	1.66	1.45	0.33	0.39	0.46	1	0	0.05		
Pembroke .....	-28	-31	30	22	4 873	23	770	2.3	0.4	1.78	1.55	0.22	0.26	0.32	4	2	0.10		
Penetanguishene .....	-23	-26	29	22	4 275	25	1 025	2.6	0.4	1.96	1.70	0.25	0.34	0.45	1	1	0.05		
Perth .....	-25	-27	30	23	4 650	25	920	2.1	0.4	1.66	1.45	0.29	0.37	0.46	3	1	0.05		
Petawawa .....	-29	-31	30	22	5 160	23	800	2.4	0.4	1.84	1.60	0.19	0.24	0.29	4	2	0.10		
Peterborough .....	-23	-25	30	23	4 411	28	793	1.8	0.4	1.48	1.30	0.29	0.37	0.47	1	1	0.05		
Petrolia .....	-16	-18	31	24	3 824	25	873	1.2	0.4	1.12	1.00	0.35	0.43	0.52	0	0	0.00		
Pickering (Dunbarton) .....	-19	-21	30	23	4 250	23	780	0.9	0.4	0.94	0.85	0.43	0.52	0.64	1	1	0.05		
Pictou .....	-21	-23	29	23	3 999	23	947	1.8	0.4	1.48	1.30	0.37	0.45	0.54	1	1	0.05		
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.



**TABLE 2.5.1.A. (Cont'd)**  
Forming part of Article 2.5.1.1.  
**DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO**

Location	Design Temperature			Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data			
	January	July 2½ °C						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v		
		2½ °C	1 °C					Dry, °C	Wet, °C	Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa							Part 9, 0.6', kPa	Part 9, 0.5', kPa
Plattsville .....	-18	-20	29	23	4 150	28	89	920	1.7	0.4	1.42	1.25	0.30	0.37	0.46	1	0	0.05	
Point Alexander .....	-29	-32	30	22	5 150	23	89	790	2.3	0.4	1.78	1.55	0.20	0.24	0.28	4	2	0.10	
Port Burwell .....	-15	-17	30	24	4 050	25	102	940	1.1	0.4	1.06	0.95	0.34	0.43	0.53	0	0	0.00	
Port Colborne .....	-15	-17	30	24	3 707	23	102	985	2.1	0.4	1.66	1.45	0.37	0.43	0.50	1	0	0.05	
Port Elgin .....	-17	-19	28	22	4 240	23	76	860	2.6	0.4	1.96	1.70	0.40	0.50	0.62	1	0	0.05	
Port Hope .....	-21	-23	30	23	4 044	23	76	801	1.1	0.4	1.06	0.95	0.46	0.55	0.65	1	1	0.05	
Port Perry .....	-22	-24	30	23	4 250	25	89	800	2.2	0.4	1.72	1.50	0.31	0.39	0.50	1	1	0.05	
Port Stanley .....	-15	-17	31	24	4 075	25	84	902	1.1	0.4	1.06	0.95	0.34	0.43	0.53	0	0	0.00	
Prescott .....	-23	-25	29	23	4 200	25	76	970	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	2	0.10	
Princeton .....	-17	-19	29	23	4 000	25	89	860	1.4	0.4	1.24	1.10	0.30	0.37	0.46	1	0	0.05	
Raith .....	-35	-37	28	22	6 490	20	76	750	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00	
Rayside-Balfour (Chelmsford) ..	-28	-30	29	21	5 451	25	76	860	2.3	0.4	1.78	1.55	0.29	0.39	0.53	1	0	0.05	
Red Lake .....	-34	-36	28	22	6 350	18	110	589	2.2	0.3	1.62	1.40	0.22	0.26	0.31	0	0	0.00	
Renfrew .....	-27	-30	30	23	4 912	23	76	780	2.3	0.4	1.78	1.55	0.26	0.32	0.39	4	2	0.10	
Richmond Hill ..	-20	-22	31	24	4 427	25	88	805	1.4	0.4	1.24	1.10	0.39	0.48	0.59	1	0	0.05	
Rockland .....	-26	-28	30	23	4 800	23	89	900	2.2	0.4	1.72	1.50	0.30	0.37	0.45	4	2	0.10	
Sarnia .....	-16	-18	31	23	3 953	23	98	890	1.0	0.4	1.00	0.90	0.35	0.43	0.52	0	0	0.00	
Sault Ste. Marie ..	-25	-28	29	21	4 943	25	117	973	2.8	0.4	2.08	1.80	0.32	0.37	0.43	0	0	0.00	
Schreiber .....	-35	-38	27	21	6 129	20	93	860	3.0	0.4	2.20	1.90	0.25	0.29	0.34	0	0	0.00	
Seaforth .....	-17	-19	30	23	4 300	25	89	910	2.3	0.4	1.78	1.55	0.37	0.48	0.60	0	0	0.00	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

**Notes:**

1. The composite load is 60% of the ground snow load plus the rain load.
2. The composite load is 50% of the ground snow load plus the rain load.

TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January		July 2½% Wet, °C						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>s</sub>	Zonal velocity ratio, v
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6 <sup>1</sup> , kPa	Part 9, 0.5 <sup>2</sup> , kPa						
Simcoe .....	-17	-19	30	23	3926	28	115	934	1.2	0.4	1.12	1.00	0.33	0.39	0.47	1	0	0.05
Sioux Lookout ..	-34	-36	28	22	6278	28	116	713	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00
Smiths Falls .....	-25	-27	30	23	4448	28	76	782	2.1	0.4	1.66	1.45	0.29	0.37	0.46	3	2	0.10
Smithville .....	-16	-18	30	23	3750	23	114	900	1.4	0.4	1.24	1.10	0.33	0.39	0.46	1	0	0.05
Smooth Rock Falls .....	-34	-36	29	21	6400	20	63	850	2.5	0.3	1.80	1.55	0.24	0.29	0.36	1	0	0.05
Southampton ....	-17	-19	28	22	4236	23	88	866	2.5	0.4	1.90	1.65	0.38	0.48	0.59	1	0	0.05
South River .....	-27	-29	28	21	5280	28	89	950	2.6	0.4	1.96	1.70	0.23	0.29	0.36	1	1	0.05
St. Catharines ...	-16	-18	30	23	3664	23	77	807	0.9	0.4	0.94	0.85	0.36	0.43	0.50	1	0	0.05
St. Marys .....	-18	-20	30	23	4200	28	89	970	2.0	0.4	1.60	1.40	0.35	0.45	0.58	0	0	0.00
St. Thomas .....	-16	-18	31	23	3985	25	105	912	1.3	0.4	1.18	1.05	0.33	0.43	0.54	0	0	0.00
Stirling .....	-23	-25	30	23	4464	25	86	783	1.6	0.4	1.36	1.20	0.28	0.36	0.46	1	1	0.05
Stratford .....	-18	-20	29	23	4429	28	126	1 046	2.1	0.4	1.66	1.45	0.33	0.43	0.54	0	0	0.00
Strathroy .....	-17	-19	31	23	3943	25	76	894	1.7	0.4	1.42	1.25	0.36	0.45	0.57	0	0	0.00
Strugeon Falls ...	-27	-29	29	21	5200	28	89	850	2.0	0.4	1.60	1.40	0.25	0.32	0.40	1	1	0.05
Sudbury .....	-28	-30	29	21	5043	25	112	794	2.3	0.4	1.78	1.55	0.29	0.40	0.55	1	1	0.05
Sundridge .....	-27	-29	28	21	5250	28	102	950	2.6	0.4	1.96	1.70	0.23	0.29	0.37	2	1	0.05
Tavistock .....	-18	-20	29	23	4450	28	89	950	1.9	0.4	1.54	1.35	0.34	0.43	0.53	1	0	0.05
Temagami .....	-30	-33	30	21	5300	25	89	870	2.4	0.4	1.84	1.60	0.27	0.34	0.42	2	1	0.05
Thamesford .....	-18	-20	30	23	4200	28	89	975	1.7	0.4	1.42	1.25	0.33	0.43	0.55	0	0	0.00
Thedford .....	-16	-18	31	23	3850	23	89	840	1.9	0.4	1.54	1.35	0.41	0.50	0.61	0	0	0.00
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.

**TABLE 2.5.1.A. (Cont'd)**  
Forming part of Article 2.5.1.1.

**DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO**

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures			Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v
	2½ %, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa						
Thunder Bay ....	-31	-33	28	21	5 673	20	98	712	2.7	0.4	2.02	1.75	0.25	0.29	0.34	0	0	0.00
Tilsonburg .....	-17	-19	30	23	4 050	25	102	914	1.2	0.4	1.12	1.00	0.31	0.39	0.50	0	0	0.00
Timmins .....	-34	-36	30	21	6 225	18	133	862	2.8	0.3	1.98	1.70	0.25	0.32	0.40	1	0	0.05
Timmins (Porcupine) ...	-34	-36	30	21	6 049	18	76	836	2.7	0.3	1.92	1.65	0.27	0.34	0.42	1	0	0.05
Timmins (South Porcupine) ....	-34	-36	30	21	6 200	18	76	820	2.7	0.3	1.92	1.65	0.27	0.34	0.42	1	0	0.05
Toronto/ Metropolitan	-20	-22	31	24	3 781	26	84	757	1.0	0.4	1.00	0.90	0.39	0.48	0.59	1	0	0.05
Etobicoke .....	-20	-22	31	24	3 999	25	82	782	1.1	0.4	1.06	0.95	0.39	0.48	0.59	1	0	0.05
North York ...	-20	-22	31	24	4 110	25	85	821	1.1	0.4	1.06	0.95	0.39	0.48	0.59	1	0	0.05
Scarborough ...	-18	-20	31	23	3 646	25	121	801	0.8	0.4	0.88	0.80	0.39	0.48	0.58	1	0	0.05
Toronto .....	-21	-23	29	23	4 102	23	97	855	1.5	0.4	1.30	1.15	0.35	0.43	0.52	1	1	0.05
Trenton .....	-38	-40	25	20	7 699	13	84	581	2.5	0.4	1.90	1.65	0.33	0.39	0.46	0	0	0.00
Trout Creek .....	-22	-24	30	23	4 483	25	83	800	2.2	0.4	1.72	1.50	0.29	0.37	0.48	1	1	0.05
Vaughan (Woodbridge)	-20	-22	31	24	4 200	26	121	768	1.0	0.4	1.00	0.90	0.39	0.48	0.59	1	0	0.05
Vittoria .....	-15	-17	30	24	3 800	25	114	900	1.2	0.4	1.12	1.00	0.35	0.43	0.52	1	0	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

**Notes:**

1. The composite load is 60% of the ground snow load plus the rain load.
2. The composite load is 50% of the ground snow load plus the rain load.



TABLE 2.5.1.A. (Cont'd)  
Forming part of Article 2.5.1.1.  
DESIGN DATA FOR SELECTED LOCATIONS IN ONTARIO

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January	July 2½%		Wet., °C					Ground Loads, kPa			Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>n</sub>	Z <sub>s</sub>	Zonal velocity ratio, v
		2½%, °C	1%, °C						Dry., °C	Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6', kPa	Part 9, 0.5', kPa						
Walkerton .....	-18	-20	30	22	4 310	28	125	962	2.5	0.4	1.90	1.65	0.35	0.45	0.57	1	0	0.05	
Wallaceburg .....	-16	-18	31	24	3 658	28	100	760	0.8	0.4	0.88	0.80	0.32	0.39	0.48	0	0	0.00	
Waterloo .....	-19	-21	29	23	4 146	28	102	895	1.8	0.4	1.48	1.30	0.27	0.34	0.42	1	0	0.05	
Watford .....	-16	-18	31	24	3 850	25	76	880	1.7	0.4	1.42	1.25	0.34	0.43	0.53	0	0	0.00	
Wawa .....	-35	-38	26	21	5 756	20	100	1 030	3.8	0.4	2.68	2.30	0.24	0.28	0.33	0	0	0.00	
Welland .....	-15	-17	30	23	3 733	23	118	938	2.0	0.4	1.60	1.40	0.33	0.39	0.47	1	0	0.00	
West Lorne .....	-16	-18	31	24	3 800	28	102	870	1.2	0.4	1.12	1.00	0.34	0.43	0.53	0	0	0.00	
Whitby .....	-20	-22	30	23	4 080	23	76	840	1.1	0.4	1.06	0.95	0.43	0.52	0.64	1	1	0.05	
Whitby (Brooklin) .....	-20	-22	30	23	4 250	23	76	840	1.7	0.4	1.42	1.25	0.38	0.48	0.59	1	1	0.05	
White River .....	-39	-42	28	21	6 479	20	102	823	4.1	0.4	2.86	2.45	0.20	0.24	0.28	0	0	0.00	
Wiarton .....	-18	-20	28	22	4 486	25	105	965	2.5	0.4	1.90	1.65	0.33	0.43	0.55	1	0	0.05	
Windsor .....	-16	-18	31	24	3 622	28	78	849	0.7	0.4	0.82	0.75	0.29	0.36	0.44	0	0	0.00	
Wingham .....	-18	-20	30	23	4 250	28	89	1 040	2.4	0.4	1.84	1.60	0.35	0.45	0.57	0	0	0.00	
Woodstock .....	-18	-20	29	23	4 131	28	132	862	1.7	0.4	1.42	1.25	0.31	0.39	0.50	1	0	0.05	
Wyoming .....	-16	-18	31	24	3 800	25	76	880	1.5	0.4	1.30	1.15	0.35	0.43	0.52	0	0	0.00	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

Notes:

- 1. The composite load is 60% of the ground snow load plus the rain load.
- 2. The composite load is 50% of the ground snow load plus the rain load.

**Section 2.6 Referenced Documents****2.6.1. Application**

**2.6.1.1.** The provisions of referenced documents in this Code apply only to the extent that they relate to *buildings* or to structures designated in Subsection 2.1.2.

**2.6.2. Conflicting Requirements**

**2.6.2.1.** In the case of conflict between the provisions of this Code and those of a referenced document, the provisions of this Code shall govern.

**2.6.3. Effective Date**

**2.6.3.1.** Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions and supplements effective to January 1, 1990.

**2.6.3.2.** Where documents are referenced in this Code, they shall be in the editions designated in Column 2 of Table 2.6.3.A.

**Table 2.6.3.A.**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
ANSI	B36.10-1979	Welded and Seamless Wrought Steel Pipe	3.2.9.6.(1)
ASTM	A120-84	Pipe, Steel, Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses	3.2.9.6.(1)
ASTM	A123-84	Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products	Table 9.20.16.A.
ASTM	A153-82 (1987)	Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware	Table 9.20.16.A.
ASTM	A252-82	Welded and Seamless Steel Pipe Piles	4.2.3.8.
ASTM	A283M-85	Low and Intermediate Tensile Strength Carbon Steel Plates, Shapes, and Bars	4.2.3.8.
ASTM	A525-86	Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process	9.3.3.2.
ASTM	A570M/570M-88	Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality	4.2.3.8.
ASTM	A611-85	Steel, Cold-Rolled Sheet, Carbon Structural	4.2.3.8.
ASTM	B75-84	Seamless Copper Tube	3.2.9.6.(1)
ASTM	B251-84	General Requirements for Wrought Seamless Copper and Copper-Alloy Tube	3.2.9.6.(1)
ASTM	C4-62 (1986)	Clay Drain Tile	9.14.3.1.
ASTM	C5-79 (1988)	Quicklime for Structural Purposes	9.20.3.1.(1)
ASTM	C27-84 (1988)	Classification for Fire Clay and High Alumina Refractory Brick	9.21.3.4.
ASTM	C126-86	Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units	9.20.2.1.(1)
Column 1	2	3	4

Table 2.6.3.A.—(Cont'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
ASTM	C207-79 (1988)	Hydrated Lime for Masonry Purposes	9.20.3.1.(1)
ASTM	C212-60 (1986)	Structural Clay Facing Tile	9.20.2.1.(1)
ASTM	C315-87 (1983)	Clay Flue Linings	9.21.3.3.
ASTM	C411-82 (1987)	Hot-Surface Performance of High-Temperature Thermal Insulation	6.2.3.6.(3) 6.2.9.2.(2)
ASTM	C412M-83 (1988)	Concrete Drain Tile	9.14.3.1.(1)
ASTM	C444M-87	Perforated Concrete Pipe	9.14.3.1.(1)
ASTM	C700-89 (1983)	Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated	9.14.3.1.(1)
ASTM	C1002-88	Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases	9.24.1.4. 9.29.5.7.
ASTM	D374-79	Thickness of Solid Electrical Insulation	3.8.4.1.(1)
ASTM	D568-77	Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position	3.8.4.1.(1)
ASTM	D635-81	Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position	3.8.4.1.(1)
ASTM	D2898-81 (1986)	Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing	3.1.5.5.(7) 3.1.5.5.(8)
ASTM	E90-87	Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions	9.11.1.1.
ASTM	E283-84	Standard Test Method for Rate of Air Leakage through Windows, Curtain Walls and Doors	9.6.4.4. 9.38.6.1.
ASTM	E336-84	Measurement of Airborne Sound Insulation in Buildings	9.11.1.1.
ASTM	E413-87	Classification for Rating Sound Insulation	9.11.1.1.
ASTM	F476-84	Standard Test Methods For Security of Swinging Door Assemblies	9.6.6.10.
AWS	Specification a5.8-76	Brazing Filler Metal	3.2.9.6.(2)
BRMD	Safety Code 20-A	X-ray equipment in Medical Diagnosis Part A: Recommended Safety Procedures for Installation and Use	3.6.5.3.(2)
CGSB	CAN/CGSB-7.1-M86	Cold Formed Steel Framing Components	9.24.1.2.
CGSB	CAN/CGSB-7.2-M86	Adjustable Metal Columns	9.17.3.4.
CGSB	10-GP-3Ma-1981	Refractory Mortar, Air Setting	9.21.3.4. 9.21.3.9.(1) 9.22.2.2.(1)
Column 1	2	3	4



**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	CAN/CGSB-11.3-M87	Hardboard	9.27.10.1.(2) 9.29.7.1.(2) 9.30.2.2.(1)
CGSB	CAN/CGSB-11.5-M87	Hardboard, Precoated, Factory Finished, for Exterior Cladding	9.27.10.1.(1)
CGSB	CAN2-12.1-M79	Glass, Safety, Tempered or Laminated	3.3.1.18.(2) 3.4.6.14.(3) 9.6.5.2.(2) 9.7.3.1.(1)
CGSB	CAN2-12.2-M76	Glass, Sheet, Flat, Clear	9.7.3.1.(1)
CGSB	CAN2-12.3-M76	Glass, Polished Plate or Float, Flat, Clear	9.7.3.1.(1)
CGSB	CAN2-12.4-M76	Glass, Heat Absorbing	9.7.3.1.(1)
CGSB	CAN2-12.5-M86	Mirrors, Silvered	9.6.5.3.(2)
CGSB	CAN2-12.8-M76	Insulating Glass Units	9.7.3.1.(1)
CGSB	CAN2-12.10-M76	Glass, Light and Heat Reflecting	9.7.3.1.(1)
CGSB	CAN2-12.11-M76	Glass, Wired, Safety	3.3.1.18.(2) 3.4.6.14.(3) 9.6.5.2.(2) 9.7.3.1.(1)
CGSB	CAN/CGSB-12.20-M89	Structural Design of Glass for Buildings	4.3.6.1. 9.7.3.2.
CGSB	19-GP-5M-1976	Sealing Compound, One Component, Acrylic Base, Solvent Curing	9.27.4.2.(2)
CGSB	CAN2-19.13-M87	Sealing Compound, One Component, Elastomeric, Chemical Curing	9.27.4.2.(2)
CGSB	19-GP-14M-1976	Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing	9.27.4.2.(2)
CGSB	19-GP-22M-1977	Sealing Compound, Mildew Resistant, for Tubs and Tile	9.29.10.5.
CGSB	CAN2-19.24-M80	Sealing Compound, Multi-Component, Chemical Curing	9.27.4.2.(2)
CGSB	24-GP-3a 1967	Code of Identification and Classification of Piping Systems	3.2.9.6.(14)
CGSB	CAN/CGSB-34.4-M89	Siding, Asbestos Cement, Shingles and Clapboards	9.27.8.1.(1)
CGSB	CAN/CGSB-34.5-M89	Sheets, Asbestos, Cement Corrugated	9.27.8.1.(1)
CGSB	CAN/CGSB-37.14-M87	Sheets, Asbestos, Cement Decorative	9.27.8.1.(1)
Column 1	2	3	4

**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	CAN/CGSB 34.16-M89	Sheets, Asbestos-Cement, Flat, Fully Compressed	9.27.8.1.(1)
CGSB	CAN/CGSB-34.17-M89	Sheets, Asbestos-Cement, Flat Semicompressed	9.27.8.1.(1)
CGSB	CAN/CGSB-34.21-M89	Panels, Sandwich, Asbestos-Cement with Insulating Cores	9.27.8.1.(1)
CGSB	CAN/CGSB-34.22	Pipe, Asbestos-Cement, Drain	9.14.3.1.(1)
CGSB	CAN/CGSB-37.2-M88	Asphalt, Emulsified, Mineral Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings	9.13.2.1.(1)
CGSB	37-GP-3M-1976	Application of Emulsified Asphalts for Dampproofing or Waterproofing	9.13.1.3.(1)
CGSB	CAN/CGSB-37.4-M89	Cement, Lap, Cutback Asphalt, Fibrated, for Asphalt Roofing	9.26.2.1.(1)
CGSB	CAN/CGSB-37.5-M89	Cement, Plastic, Cutback Asphalt	9.26.2.1.(1)
CGSB	37-GP-6Ma-1983	Asphalt, Cutback, Unfilled, for Dampproofing	9.13.2.1.(1)
CGSB	CAN/CGSB-37.8-M88	Asphalt, Cutback, Filled, for Roof Coating	9.26.2.1.(1)
CGSB	37-GP-9Ma-1983	Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing	9.26.2.1.(1)
CGSB	37-GP-12Ma-1984	Application of Unfilled Cutback Asphalt for Dampproofing	9.13.1.3.(1)
CGSB	37-GP-16M-1976	Asphalt, Cutback, Filled, for Dampproofing and Waterproofing	9.13.2.1.(1)
CGSB	37-GP-18Ma-1985	Tar, Cutback, Unfilled, for Dampproofing	9.13.2.1.(1)
CGSB	37-GP-21M-1976	Tar, Cutback, Fibrated, For Roof Coating	9.26.2.1.(1)
CGSB	37-GP-22M-1976	Application of Unfilled Cutback Tar Foundation Coating for Dampproofing	9.13.1.3.(1)
CGSB	37-GP-50M-1978	Asphalt, Rubberized, Hot Applied for Roofing and Waterproofing	9.26.2.1.(1)
CGSB	37-GP-51M-1979	Application of Rubberized Asphalt, Hot Applied, For Roofing and Waterproofing	9.26.15.1.
CGSB	37-GP-52M-1984	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric	9.26.2.1.(1)
CGSB	37-GP-54M-1979	Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride	9.26.2.1.(1)
Column 1	2	3	4

Table 2.6.3.A.—(Cont'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	37-GP-55M-1979	Application of Sheet Applied Flexible Polyvinyl Chloride Roofing Membrane	9.26.16.1.
CGSB	37-GP-56M-1980	Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing	9.26.2.1.(1)
CGSB	41-GP-6M-1976	Sheets, Thermosetting Polyester Plastics, Glass Fiber Reinforced	9.26.2.1.(1)
CGSB	41-GP-24Ma-1983	Siding, Soffits and Fascia, Rigid Vinyl	9.27.13.1.
CGSB	41-GP-29Ma 1983	Tubing, Plastic, Corrugated, Drainage	9.14.3.1.(1)
CGSB	CAN/CGSB-51.20-M87	Thermal Insulation, Polystyrene Boards and Pipe Covering	Table 9.23.16.A. 9.25.3.1.(1) 9.25.3.3.
GGSB	51-GP-21M-1978	Thermal Insulation, Urethane and Isocyanurate, Unfaced	Table 9.23.16.A. 9.25.3.1.(1)
CGSB	CAN/CGSB-51.25-M87	Thermal Insulation, Phenolic, Faced	Table 9.23.16.A. 9.25.3.1.(1)
CGSB	CAN/CGSB-51.26-M86	Thermal Insulation, Urethane and Isocyanurate, Boards, Faced	Table 9.23.16.A. 9.25.3.1.(1)
CGSB	51-GP-27M-1979	Thermal Insulation, Polystyrene Loose Fill	9.25.3.1.(1)
CGSB	CAN2-51.32-M77	Sheathing, Membrane, Breather Type	9.20.13.10.(1) 9.23.17.1. 9.26.2.1.(1)
CGSB	CAN2-51.33-M80	Vapour Barrier, Sheet, for Use in Building Construction	9.25.3.5.(1)
CGSB	CAN/CGSB-51.34-M86	Vapour Barrier, Polyethylene Sheet for Use in Building Construction	9.13.2.1.(1) 9.25.3.4.(1) 9.25.3.5.(1)
CGSB	51-GP-60M-1979	Thermal Insulation, Cellulose Fibre, Loose Fill	9.25.3.1.(1)
CGSB	CAN/CGSB-63.14-M89	Plastic Skylights	9.7.7.1. 9.7.7.2.
CGSB	CAN/CGSB-82.1-M89	Sliding Doors	9.6.4.2.
CGSB	CAN/CGSB-82.5-M88	Insulated Steel Doors	9.6.4.3.
CGSB	CAN/CGSB-82.6-M86	Doors, Mirrored Glass, Sliding or Folding, Wardrobe	9.6.5.3.
CGSB	CAN/CGSB-93.1-M85	Sheet, Aluminum Alloy, Prefinished Residential	9.27.12.1.(4)
CGSB	93-GP-2Ma-1983	Siding, Soffits and Fascia, Aluminum, Prefinished, Residential	9.27.12.1.(3)
Column 1	2	3	4



**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	93-GP-3M-1978	Sheet, Steel, Galvanized, Prefinished, Residential	9.27.12.1.(2)
CGSB	93-GP-4M-1978	Siding, Soffits and Fascia, Steel, Galvanized, Prefinished, Residential	9.27.12.1.(1)
CSA	CAN3 A5-M88	Portland Cements	9.3.1.2. 9.20.3.1.(1) 9.28.2.1.
CSA	CAN/CSA-A8-M88	Masonry Cement	9.20.3.1.(1)
CSA	CAN3-A23.1-M77	Concrete Materials and Methods of Concrete Construction	4.2.3.6. 4.2.3.9. 9.3.1.3.(1) 9.3.1.4.
CSA	CAN3-A23.2-M77	Methods of Test for Concrete	9.3.1.8.(1) Table 4.1.9.B.
CSA	CAN3-A23.3-M84	Design of Concrete Structures for Buildings	4.3.3.1.
CSA	CAN/CSA-A82.1-M87	Burned Clay Brick (Solid Masonry Units Made From Clay or Shale)	9.20.2.1.(1)
CSA	A82.3-M1978	Calcium Silicate (Sand-Lime) Building Brick	9.20.2.1.(1)
CSA	A82.4-M1978	Structural Clay Load-Bearing Wall Tile	9.20.2.1.(1)
CSA	A82.5-M1978	Structural Clay Non-Load-Bearing Tile	9.20.2.1.(1)
CSA	A82.22-M1977	Gypsum Plasters	9.20.3.1.
CSA	A82.27-M1977	Gypsum Board Products	3.1.5.11.(4) Table 9.10.3.A. Table 9.10.3.B. Table 9.23.16.A. 9.29.5.2.
CSA	A82.30-M1980	Interior Furring, Lathing and Gypsum Plastering	9.29.4.1.
CSA	A82.31-M1980	Gypsum Board Application	9.29.5.1.(2)
CSA	A82.56-M1976	Aggregate for Masonry Mortar	9.20.3.1.(1)
CSA	CAN3-A93-M82	Natural Airflow Ventilators for Buildings	9.19.1.1.(4)
CSA	A101-M1983	Thermal Insulation, Mineral Fibre, for Buildings	9.25.3.1.(1) Table 9.25.16.A.
CSA	A123.1-M1979	Asphalt Shingles Surfaced with Mineral Granules	9.26.2.1.(1)
CSA	A123.17-1963	Asphalt-Saturated Felted Glass-Fibre Mat for Use in Construction of Built-Up Roofs	9.26.2.1.(1)
CSA	A123.2-M1979	Asphalt Coated Roofing Sheets	9.26.2.1.(1)
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**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CSA	A123.3-M1979	Asphalt or Tar Saturated Roofing Felt	9.26.2.1.(1)
CSA	A123.4-M1979	Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems	9.13.2.1.(1) 9.26.2.1.(1)
CSA	CAN3-A123.51-M85	Asphalt Shingle Application on Roof Slopes 1:3 and Steeper	9.26.1.2.
CSA	CAN3-A123.52-M85	Asphalt Shingle Application on Roof Slopes 1:6 to Less than 1:3	9.26.1.2.
CSA	CAN3-A165.1-M85	Concrete Masonry Units	9.15.2.2. 9.20.2.1.(1) 9.20.2.6.(1)
CSA	CAN3-A165.2-M85	Concrete Brick Masonry Units	9.20.2.1.(1)
CSA	CAN3-A165.3-M85	Prefaced Concrete Masonry Units	9.20.2.1.(1)
CSA	CAN3-A165.4-M85	Autoclaved Cellular Units	9.20.2.1.(1)
CSA	CAN/CSA-A247-M86	Insulating Fibreboard	9.23.15.6.(3) Table 9.23.16.A. 9.25.3.1. 9.29.8.1.
CSA	CAN3-A266.1-M78	Air-Entraining Admixtures for Concrete	9.3.1.9.
CSA	CAN3-A266.2-M78	Chemical Admixtures for Concrete	9.3.1.9.
CSA	CAN3-A277-M81	Procedures for Certification of Factory-Built Houses	2.1.1.4.(2)
CSA	CAN3-A371-M84	Masonry Construction for Buildings	9.20.15.2.
CSA	CAN/CSA A405-M87	Design and Construction of Masonry Fireplaces	9.21.3.5. 9.22.5.2.(2)
CSA	CAN3-A438-M84	Concrete Construction for Housing and Small Buildings	9.3.1.1.
CSA	CAN3-A440-M84	Windows	3.6.2.2.(3) 9.7.2.1. 9.7.6.1.
CSA	CAN3-B44-M1985	Safety Code for Elevators, Dumbwaiters, Escalators, Moving Walks and Freight Platform Lifts	3.3.3.10. 3.7.3.5.(1) Table 4.1.10.A.
CSA	B52-M1983	Mechanical Refrigeration Code	6.2.2.4.(4)
CSA	B111-1974	Wire Nails, Spikes and Staples	9.23.3.1. 9.26.2.2.(1) 9.29.5.6.
CSA	CAN/CSA-B182.1-M87	Plastic Drain and Sewer Pipe and Pipe Fittings	9.14.3.1.(1)
Column 1	2	3	4

Table 2.6.3.A.—(Cont'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CSA	CAN/CSA-B355-M86	Elevating Devices for the Handicapped	3.7.3.5.(2)
CSA	CAN/CSA B365-M87	Installation Code for Solid-Fuel Burning Appliances and Equipment	6.2.1.4.(1) 9.21.1.3.(2) 9.22.10.1.(1) 9.33.1.2.
CSA	B366.1-M1981	Solid Fuel Fired Appliances for Residential Use	6.2.1.4.(2)
CSA	CAN3-C22.2 No.0.3-M85	Test Methods for Electrical Wires and Cables	3.1.4.3.(1) 3.1.5.17. 3.1.5.19. 3.5.4.3.(1)
CSA	CAN3 C88-M79	Power Transformers and Reactors	3.5.2.9.(10)
CSA	C22.2 No.113-M1984	Fans and Ventilators	9.32.3.3.(2)
CSA	C22.2 No.141-M1985	Unit Equipment for Emergency Lighting	3.2.7.4.(2) 9.9.11.3.(6)
CSA	CAN/CSA-C282-M89	Emergency Electrical Power Supply for Buildings	3.2.7.5.
CSA	CAN/CSA-G40.21-M87	Structural Quality Steels	4.2.3.8. 9.23.4.2.(2)
CSA	CAN3-G401-M81	Corrugated Steel Pipe Products	9.14.3.1.(1)
CSA	CAN/CSA-O80-M89	Wood Preservation	3.1.4.4.(1) 4.2.3.2.(1)
CSA	CAN/CSA-O80.1-M89	Preservative Treatment of All Timber Products by Pressure Processes	9.3.2.9.(1)
CSA	CAN/CSA-O80.2-M89	Preservative Treatment of Lumber, Timber, Bridge Ties and Mine Ties by Pressure Processes	4.2.3.2.(1) 9.3.2.9.(1)
CSA	CAN/CSA-O80.3-M89	Preservative Treatment of Piles by Pressure Processes	4.2.3.2.(1)
CSA	CAN/CSA-O80.9-M89	Preservative Treatment of Plywood by Pressure Processes	9.3.2.9.(1)
CSA	CAN/CSA-O80.15-M89	Preservative Treatment of Wood for Building Foundation Systems, Basements and Crawl Spaces by Pressure Processes	4.2.3.2.(1) 9.3.2.9.(1)
CSA	CAN3-O86-M84	Engineering Design in Wood	4.3.1.1.
CSA	CAN/CSA-O86.1-M84	Engineering Design in Wood - Limit States Design	4.3.1.1. Table 4.1.9.B.
CSA	O115-M1982	Hardwood and Decorative Plywood	9.27.9.1. 9.30.2.2.(1)
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**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CSA	O118.1-M88	Western Red Cedar Shingles and Shakes	9.26.2.1.(1) 9.27.7.1.
CSA	O121-M1978	Douglas Fir Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.A. 9.27.9.1. 9.30.2.2.(1)
CSA	CAN/CSA-O122-M89	Structural Glued-Laminated Timber	9.23.4.3.(2) Table 9.23.4.B.
CSA	O132.2-M1977	Wood Doors	9.6.4.1.(1)
CSA	O141-1970	Softwood Lumber	3.1.4.6.(2) 9.3.2.6.
CSA	O151-M1978	Canadian Softwood Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.A. 9.27.9.1. 9.30.2.2.(1)
CSA	O153-M1980	Poplar Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.A. 9.27.9.1. 9.30.2.2.(1)
CSA	CAN/CSA-O177-M89	Qualification Code for Manufacturers of Structural Glued-Laminated Timber	4.3.1.2.
CSA	CAN3-O188.1-M78	Interior Mat-Formed Wood Particleboard	9.23.14.2.(3) 9.29.9.1.(1) 9.30.2.2.(1)
CSA	CAN/CSA-O325.0-88	Construction Sheathing	Table 9.23.14.B. 9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.15.B. Table 9.23.16.B.
CSA	CAN3-O437.0-M85	Waferboard and Strandboard	9.23.14.2.(1) 9.23.15.1.(1) 9.23.15.2.(2) Table 9.23.16.A. 9.27.11.1. 9.29.9.1.(2) 9.30.2.2.(2)
CSA	CAN/CSA-S16.1-M89	Limit States Design of Steel Structures	Table 4.1.9.B. 4.3.4.1.
CSA	CAN3S37-M1981	Antennas, Towers and Antenna Supporting Structures	4.1.1.4.(2)
CSA	CAN/CSA-S136-M89	Cold Formed Steel Structural Members	4.3.4.2.
Column 1	2	3	4

Table 2.6.3.A.—(Cont'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
CSA	CAN3-S157-M83	Strength Design in Aluminum	4.3.5.1.
CSA	S269.1-1975	Falsework for Construction Purposes	4.1.1.3.(3)
CSA	CAN3-S304-M84	Masonry Design for Buildings	Table 4.1.9.B. 4.1.9.3.(6) 4.3.2.1.
CSA	S307-M1980	Load Test Procedure for Wood Roof Trusses for Houses and Small Buildings	9.23.13.11.(9)
CSA	CAN3-S367-M81	Air Supported Structures	4.4.1.1.
CSA	CAN3-S406-M83	Construction of Preserved Wood Foundations	9.15.1.3.(3)
CSA	CAN/CSA-S413-M87	Parking Structures	4.4.2.1.
CSA	Z32.1-M1986	Safety in Anaesthetizing Locations	3.6.5.1.
CSA	CAN/CSA-Z32.4-M86	Essential Electrical Systems for Hospitals	3.2.7.6.
CSA	Z91-M1980	Safety Code for Window Cleaning Operations	4.1.10.7.(2)
CSA	Z240.2.1-1979	Structural Requirements for Mobile Homes	2.1.1.4. 9.7.2.1.(2)
CSA	Z240.8.1.-1978	Light Duty Windows	2.1.1.4.(2) 9.7.2.1.(2)
CSA	Z305.1-M1984	Non-Flammable Medical Gas Piping Systems	3.6.5.2.
FINA	1984	Rules and Laws Governing Swimming, Diving, Water Polo and Synchronized Swimming	3.11.4.1.(17)
NFPA	13-1989	Installation of Sprinkler Systems	3.2.4.16.(2) 3.2.5.13.(1) 3.2.5.13.(4) 3.2.8.4.(7) 3.3.2.13.(3)
NFPA	71-1987	Installation, Maintenance and Use of Central Station Signalling Systems	3.2.4.7.(3)
NFPA	72D-1986	Installation, Maintenance and Use of Proprietary Protective Signalling Systems	3.2.4.7.(3)
NFPA	80-1986	Fire Doors and Windows	3.1.8.5.(2) 3.1.8.10.(2) 3.1.8.12.(2) 3.1.8.12.(3) 3.1.8.14.(1) 9.10.13.1. 9.10.13.2.(3)
NFPA	82-1983	Incinerators, Waste and Linen Handling Systems and Equipment	6.2.6.1. 9.10.10.5.(2)
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**Table 2.6.3.A.—(Cont'd)**  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
NFPA	96-1987	Installation of Equipment for the Removal of Smoke and Grease- Laden Vapours from Commercial Cooking Equipment	6.2.2.6.
NFPA	211-1988	Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances	6.3.1.2. 6.3.1.3.
NFPA	214-1988	Water-Cooling Towers	6.2.3.15.(4)
NLGA	1987	Standard Grading Rules for Canadian Lumber	9.3.2.1. Table 9.3.2.A.
ULC	C199P-M1988	Guide for the Investigation of Combustible Piping for Sprinkler Systems	3.2.5.14.(2)
ULC	CAN4-S101-M82	Standard Methods of Fire Endurance Tests of Building Construction and Materials	3.1.5.11.(3) 3.1.5.11.(4) 3.1.5.11.(6) 3.1.7.1.(1) 3.1.11.7.(1) 3.2.3.7.(3) 3.2.6.9.(6) 3.2.6.14.(3)
ULC	CAN/ULC-S102-M88	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies	3.1.12.1.(1)
ULC	CAN/ULC-S102.2-M88	Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies	3.1.12.1.(2) 3.1.13.4.(1)
ULC	S102.3-M1982	Standard Method of Fire Test of Light Diffusers and Lenses	3.1.13.4.(1)
ULC	CAN4-S104-M80	Standard Method of Fire Tests of Door Assemblies	3.1.8.4.(1) 3.2.6.9.(3)
ULC	CAN4-S105-M85	Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104	9.10.13.6.
ULC	CAN4-S106-M80	Standard Method for Fire Tests of Window and Glass Block Assemblies	3.1.8.4.(1)
ULC	CAN/ULC-S107-M87	Standard Method of Fire Tests of Roof Coverings	3.1.15.1.
ULC	CAN/ULC-S109-M87	Standard for Flame Tests of Flame-Resistant Fabrics and Films	3.1.6.5. 6.2.3.4. 6.2.3.5.
ULC	CAN/ULC-S110-M1986	Standard for Air Ducts	6.2.3.2.(2) 6.2.3.2.(4)
ULC	CAN4-S111-M80	Standard Method of Fire Tests for Air Filter Units	6.2.3.14.(1)
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Table 2.6.3.A.—(Cont'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
ULC	CAN4-S112-M82	Standard Method of Fire Test of Fire-Damper Assemblies	3.1.8.4.(1)
ULC	CAN4-S112.2-M84	Standard Method of Fire Test of Ceiling Firestop Flap Assemblies	3.1.9.5.(2) 3.5.4.3.(2) 9.10.13.14.
ULC	CAN4-S113-79	Standard Specification for Wood Core Doors Meeting the Performance Required by CAN4-S104-77 for Twenty Minute Fire Rated Closure Assemblies	9.10.13.2.(1)
ULC	CAN4-S114-M80	Standard Method of Test for Determination of Non-Combustibility in Building Materials	1.3.2.
ULC	CAN4-S115-M85	Standard Method of Fire Tests for Firestop Systems	3.1.9.1.(1) 3.1.9.1.(2) 3.1.9.4.(4) 9.10.9.7.(3)
ULC	CAN4-S124-M85	Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic	3.1.5.11.(2)
ULC	CAN/ULC S126-M86	Standard Method of Test for Fire Spread Under Roof-Deck Assemblies	3.1.14.1.(1) 3.1.14.2.(1)
ULC	S505-1974	Standard for Fusible Links for Fire Protection Service	3.1.8.9.(2)
ULC	S513-78	Standard for Threaded Couplings for 38 mm and 65 mm Fire Hose	3.2.9.2.(11)
ULC	CAN/ULC-S524-M86	Standard for the Installation of Fire Alarm Systems	3.2.4.5.(1)
ULC	CAN/ULC-S531-M87	Standard for Smoke Alarms	3.2.4.21.(1) 9.10.18.1.
ULC	CAN/ULC-S537-M86	Standard for the Verification of Fire Alarm Systems	3.2.4.5.(2)
ULC	S543-M1983	Standard for Internal Lug Quick Connect Couplings for Fire Hoses	3.2.9.2.(11)
ULC	CAN/ULC-S610-M87	Standard for Factory-Built Fireplaces	9.22.8.1.
ULC	CAN/ULC-S629-M87	Standard for 650°C Factory-Built Chimneys	9.21.1.2.
ULC	CAN/ULC-S639-M87	Standard for Steel Liner Assemblies for Solid Fuel-Burning Masonry Fireplaces	9.22.2.3.
DBR	Technical Paper No. 194	Fire Endurance of Protected Steel Columns and Beams	11.2.3.1.
DBR	Technical Paper No. 207	Fire Endurance of Unit Masonry Miscellaneous Assemblies	11.2.3.1.
Column 1	2	3	4

Table 2.6.3.A.—(Con't'd)  
Forming Part of Article 2.6.3.2.

DOCUMENTS REFERENCED IN THE ONTARIO BUILDING CODE			
Issuing Agency	Document Number	Title of Document	Code Reference
DBR	Technical Paper No 222	Fire Endurance of Light Framed and Miscellaneous Assemblies	11.2.3.1.
HUD	Rehabilitation Guidelines No. 8-1980	Guideline on Fire Ratings of Archaic Materials and Assemblies	11.2.3.1.
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2.6.4. Alternate Test Standards

2.6.4.1. The results of tests based on test standards other than as described in this Code may be used if the alternate test standards provide comparable results.

## Part 3

### Use and Occupancy

<b>Section 3.1</b>	<b>General</b>
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## Part 3

### Use and Occupancy

#### Section 3.1 General

##### 3.1.1. Scope

**3.1.1.1. Scope.** The scope of this Part shall be as described in Section 2.1.

**3.1.1.2.** Reserved.

**3.1.1.3.** Reserved.

##### 3.1.2. Classification of Buildings or Parts of Buildings by Major Occupancy

###### 3.1.2.1. Classification of Buildings

(1) Except as provided in Articles 3.1.2.3. to 3.1.2.6., every *building* or part thereof shall be classified according to its *major occupancy* as belonging to one of the Groups or Divisions described in Table 3.1.2.A.

**Table 3.1.2.A.**  
Forming Part of Sentence 3.1.2.1.(1)

Group	Division	Description of <i>Major Occupancies</i>
A	1	<i>Assembly occupancies</i> intended for the production and viewing of the performing arts
A	2	<i>Assembly occupancies</i> not elsewhere classified in Group A
A	3	<i>Assembly occupancies</i> of the arena type
A	4	<i>Assembly occupancies</i> in which provision is made for the congregation or gathering of persons for the purpose of participating in or viewing open air activities
B	1	<i>Institutional occupancies</i> in which persons are under restraint or are incapable of self preservation because of security measures not under their control
B	2	<i>Institutional occupancies</i> in which persons require supervisory care, medical care or treatment
C	—	<i>Residential occupancies</i>
D	—	<i>Business and personal services occupancies</i>
E	—	<i>Mercantile occupancies</i>
F	1	<i>High hazard industrial occupancies</i>
F	2	<i>Medium hazard industrial occupancies</i>
F	3	<i>Low hazard industrial occupancies</i>
Column 1	2	3

(2) A *building* intended for use by more than one *major occupancy*, shall be classified according to all *major occupancies* for which it is used or intended to be used.

**3.1.2.2. Occupancies of Same Classification.** Any *building* may be deemed to be occupied by a single *major occupancy*, notwithstanding its use for more than 1 *major occupancy*, provided that such *occupancies* are classified as belonging to the same Group classification or, where the Group is divided into Divisions, as belonging to the same Division classification in Table 3.1.2.A.

**3.1.2.3. Arena Type Buildings.** An arena type *building* intended for occasional use for trade shows and similar exhibition purposes shall be classified as Group A, Division 3 *occupancy* and, when the *building area* of such *building* is more than 1 500 m<sup>2</sup>, the *building* shall be *sprinklered*.

**3.1.2.4. Police Stations.** Police stations with detention quarters are permitted to be classified as Group B, Division 2 *major occupancies* provided such stations are not more than 1 *storey* in *building height* and 600 m<sup>2</sup> in *building area*.

**3.1.2.5. Convalescent and Children's Custodial Homes.** Convalescent homes and children's custodial homes are permitted to be classified as Group C *major occupancies* provided that occupants are ambulatory and live as a single housekeeping unit in a *dwelling unit* with sleeping accommodation for not more than 10 persons.

**3.1.2.6. Restaurants.** A restaurant is permitted to be classified as a Group E *major occupancy* provided such restaurant is designed to accommodate not more than 30 persons consuming food or drink.

### **3.1.3. Multiple Occupancy Requirements**

#### **3.1.3.1. Buildings with Multiple Occupancies**

(1) The requirements restricting fire spread and collapse for a *building* of a single *major occupancy* classification are provided in Subsection 3.2.2. according to *building height* and *building area*.

(2) Where a *building* contains more than one *major occupancy* (classified in more than one Group or Division), the requirements of Subsection 3.2.2. concerning *building* size and *construction* relative to *occupancy*, shall be applied according to Articles 3.1.3.2. to 3.1.3.5.

(3) Where an existing *building* contains more than one *major occupancy*, the requirements of Subsection 11.4.2. for the classification of multiple *occupancy buildings* shall be applied according to Articles 3.1.3.2. to 3.1.3.5.

**3.1.3.2. Applicable Building Height and Area.** In determining the fire safety requirements of a *building* in relation to each of the *major occupancies* contained therein, the *building height* and *building area* of the entire *building* shall be used.

**3.1.3.3. Construction Requirements.** Except as provided in Articles 3.1.3.4. and 3.1.3.5., in any *building* containing more than 1 *major occupancy*, the requirements of Subsection 3.2.2. for the most restricted *major occupancy* contained shall apply to the whole *building*.

#### **3.1.3.4. Superimposed Major Occupancies**

(1) Except as permitted in Article 3.1.3.5., in any *building* in which one *major occupancy* is located entirely above another *major occupancy*, the requirements in Subsection 3.2.2. for each portion of the *building* containing a *major occupancy* shall apply to that portion as if the entire *building* was of that *major occupancy*.

(2) Where one *major occupancy* is located above another, the *fire-resistance rating* of the floor assembly between such *major occupancies* shall be determined on the basis of the requirements in Subsection 3.2.2. for the lower *major occupancy*.

#### **3.1.3.5. Exceptions for Major Occupancies**

(1) In a *building* where the aggregate area of all *major occupancies* in a particular Group or Division is not more than 10 per cent of the *floor area* of the *storey* on which they are located, these *major occupancies* need not be considered as *major occupancies* for the purposes of Subsection 3.2.2. provided they are not classified as Group F, Division 1 or 2 *occupancies*.

(2) A helicopter landing area on the roof of a *building* need not be considered a *major occupancy* for purposes of Subsection 3.2.2. where such landing area is not more than 10 per cent of the area of the roof.

#### **3.1.3.6. Separation of Major Occupancies**

(1) Except as provided in Sentences (2) and (3), *major occupancies* shall be separated from adjoining *major occupancies* by *fire separations* having *fire-resistance ratings* conforming to Table 3.1.3.A.



Table 3.1.3.A.  
Forming Part of Sentence 3.1.3.6.(1)

Major Occupancy	Minimum <i>Fire-Resistance Rating of Fire Separation</i> , h <sup>(1)</sup>											
	Adjoining <i>Major Occupancy</i>											
	A-1	A-2	A-3	A-4	B-1	B-2	C	D	E	F-1	F-2	F-3
A-1	—	1	1	1	2	2	1	1	2	<sup>(2)</sup>	2	1
A-2	1	—	1	1	2	2	1	1	2	<sup>(2)</sup>	2	1
A-3	1	1	—	1	2	2	1	1	2	<sup>(2)</sup>	2	1
A-4	1	1	1	—	2	2	1	1	2	<sup>(2)</sup>	2	1
B-1	2	2	2	2	—	2	2	2	2	<sup>(2)</sup>	2	2
B-2	2	2	2	2	2	—	2	2	2	<sup>(2)</sup>	2	2
C	1	1	1	1	2	2	—	1	2 <sup>(3)</sup>	<sup>(2)</sup>	2 <sup>(4)</sup>	1
D	1	1	1	1	2	2	1	—	—	3	—	—
E	2	2	2	2	2	2	2 <sup>(3)</sup>	—	—	3	—	—
F-1	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	3	3	—	2	2
F-2	2	2	2	2	2	2	2 <sup>(4)</sup>	—	—	2	—	—
F-3	1	1	1	1	2	2	1	—	—	2	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13

Notes to Table 3.1.3.A.:

- (1) Section 3.3 contains requirements for the separation of occupancies and tenancies that are in addition to the requirements for the separation of major occupancies.
- (2) See Sentence 3.1.3.7.(1).
- (3) See Sentence 3.1.3.6.(2).
- (4) See Sentence 3.1.3.7.(2).

(2) Where not more than 2 dwelling units are contained in a building with a Group E major occupancy not more than 3 storeys in building height, the fire-resistance rating of the fire separation between the 2 major occupancies need not be more than 1 h.

(3) The fire separations required between major occupancies in Sentence (1) are permitted to be penetrated by floor openings protected in conformance with Subsection 3.2.8., except for fire separations for Group F, Division 1 major occupancies and for mezzanines described in Sentence 3.2.8.2.(1).

3.1.3.7. Prohibition of Occupancy combinations

(1) No major occupancy of Group F, Division 1 shall be contained within a building with any occupancy classified as Group A, B, or C.

(2) Except as provided in Sentence 3.10.2.4.(9), not more than one suite of residential occupancy shall be contained within a building classified as a Group F, Division 2 major occupancy.

(3) A sleeping room or sleeping area shall not open directly into a room or area where food is intended to be stored, prepared, processed, distributed, served, sold or offered for sale.

3.1.4. Combustible Construction

3.1.4.1. Combustible Materials Permitted. Where a building is permitted to be of combustible construction, it is permitted to be constructed of combustible materials described in Part 9, with or without noncombustible components.

3.1.4.2. Protection of Foamed Plastics

(1) Foamed plastics which form part of a wall or ceiling assembly in combustible construction shall be protected from adjacent spaces in the building, other than adjacent concealed spaces within attic or roof spaces, crawl spaces, and wall assemblies, by

- (a) one of the interior finishes described in Subsections 9.29.4. to 9.29.9,
- (b) sheet metal mechanically fastened to the supporting assembly independent of the insulation, not less than 0.38 mm thick and with a melting point not below 650°C provided the building does not contain a Group B or Group C major occupancy, or
- (c) any thermal barrier that meets the requirements of Sentence 3.1.5.11.(2).

**3.1.4.3. Electrical Wires and Cables**

- (1) Electrical wires and cables installed in *buildings* permitted to be of *combustible construction* shall
- (a) not convey flame or continue to burn for more than 1 min when tested in conformance with the Vertical Flame Test in Clause 4.11.1. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT1 Rating), or comply with the test requirements in Clause 3.1.5.17.(1)(a), (FT4 Rating), or in Subclause 3.5.4.3.(1)(a)(ii), (FT6 Rating), or
  - (b) be located in
    - (i) totally enclosed *noncombustible* raceways,
    - (ii) concealed spaces in walls, or
    - (iii) concrete slabs.
- (2) Service-entrance cables for communication and community antennae distribution systems need not conform to Sentence (1) provided
- (a) the service-entrance cables are located in a *building* permitted to be of *combustible construction* and are not more than 3 m in length from the point of entry into the *building* or from the point of leaving protection as required as required in Clause (1)(b), or
  - (b) provided the service entrance cables enter into an electrical or telephone *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

**3.1.4.4. Fire-Retardant Treated Wood**

- (1) Where *fire-retardant treated wood* is specified in this Part, such wood shall
- (a) be pressure impregnated with fire-retardant chemicals in conformance with CAN/CSA-080-M, "Wood Preservation", and
  - (b) have a *flame-spread rating* of not more than 25.

**3.1.4.5. Heavy Timber Construction Alternative.** Where *combustible construction* is permitted and is required to have a *fire-resistance rating* of not more than 45 min, *heavy timber construction* is permitted to be used provided the construction conforms to Article 3.1.4.6.

**3.1.4.6. Heavy Timber Construction**

(1) Wood elements in *heavy timber construction* shall be arranged in heavy solid masses and with essentially smooth flat surfaces to avoid thin sections and sharp projections.

(2) The actual dimensions of solid-sawn lumber used in *heavy timber construction* in this Article shall conform to CSA 0141, "Softwood Lumber."

(3) Except as provided in Sentences (4) to (6), the minimum dimensions of wood elements in *heavy timber construction* shall conform to Table 3.1.4.A.

**Table 3.1.4.A.**  
Forming Part of Sentence 3.1.4.6.(3)

Supported Assembly	Structural Element	Solid Sawn (width × depth), mm × mm	Glued-Laminated (width × depth), mm × mm	Round (diam), mm
Roofs only	Columns	140 × 191	130 × 190	180
	Arches supported on the tops of walls or abutments	89 × 140	80 × 152	-
	Beams, girders and trusses	89 × 140	80 × 152	-
	Arches supported at or near the floor line	140 × 140	130 × 152	-
Column 1	2	3	4	5

Table 3.1.4.A.—(Cont'd)  
Forming Part of Sentence 3.1.4.6.(3)

Supported Assembly	Structural Element	Solid Sawn (width × depth), mm × mm	Glued-Laminated (width × depth), mm × mm	Round (diam), mm
Floors, floors plus roofs	Columns	191 × 191	175 × 190	200
	Beams, girders, trusses and arches	140 × 241 or 191 × 191	130 × 228 or 175 × 190	—  —
	Column 1	2	3	4
				5

(4) Roof arches supported on the tops of walls or abutments, roof trusses, roof beams and roof girders shall be spliced where necessary with splice plates not less than 64 mm thick and be

- (a) not less than 64 mm thick where 2 or more spaced members are used for the construction, with intervening spaces blocked solidly throughout or tightly closed by a continuous wood cover plate not less than 38 mm thick secured to the underside of the members, or
- (b) not less than 64 mm thick when protected by automatic sprinklers under the roof deck.

(5) Floors shall be of glued-laminated or solid-sawn plank not less than 64 mm thick, splined or tongued and grooved, or not less than 38 mm wide and 89 mm deep set on edge and well-spiked together

- (a) laid so that no continuous line of end joints will occur except at points of support, and covered with tongued and grooved flooring not less than 19 mm thick laid cross-wise or diagonally, or tongued and grooved phenolic-bonded plywood, strandboard or waferboard not less than 12.5 mm thick, and
- (b) laid not closer than 15 mm to the walls to provide for expansion, and the gap covered at the top or bottom.

(6) Roofs shall be of tongued and grooved phenolic-bonded plywood not less than 28 mm thick, or glued-laminated or solid-sawn plank that is

- (a) not less than 38 mm thick, splined or tongued and grooved, or
- (b) not less than 38 mm wide and 64 mm deep set on edge and laid so that no continuous line of end joints will occur except at the points of support.

(7) Wood columns shall be continuous or superimposed throughout all *storeys*.

(8) Superimposed wood columns shall be connected by

- (a) reinforced concrete or metal caps with brackets,
- (b) steel or iron caps with pintles and base plates, or
- (c) timber splice plates fastened to the columns by metal connectors housed within the contact faces.

(9) Where beams and girders enter masonry, wall plates, boxes of the self-releasing type or hangers shall be used.

(10) Wood girders and beams shall be closely fitted around columns, and adjoining ends shall be connected by ties or caps to transfer horizontal loads across the joints.

(11) Intermediate wood beams used to support a floor shall be supported on top of the girders or on metal hangers into which the ends of the beams are closely fitted.

3.1.5. Noncombustible Construction

3.1.5.1. Noncombustible Materials. Except as permitted in Articles 3.1.5.2. to 3.1.5.21, 3.1.13.4. and 3.2.2.13., where a *building* or part of a *building* is required to be of *noncombustible construction*, the construction shall be made from *noncombustible* materials.

3.1.5.2. Minor Noncombustible Components

(1) The following minor *combustible* components are permitted in a *building* required to be of *noncombustible construction*:



- (a) paint,
- (b) tightly adhering paper covering not more than 1 mm thick applied to a *noncombustible* backing provided the assembly has a *flame-spread rating* of 25 or less,
- (c) mastics and caulking materials applied to provide flexible seals between the major components of exterior wall construction,
- (d) fire stop materials conforming to Sentence 3.1.9.1.(1) and Article 3.1.11.7.,
- (e) tubing for pneumatic controls provided it has an outside diameter not more than 10 mm,
- (f) adhesives, vapour barriers and sheathing papers,
- (g) electrical outlet and junction boxes, and
- (h) similar minor components.

### 3.1.5.3. Combustible Roofing Materials

(1) *Combustible* roof covering which has an A, B, or C classification determined in conformance with Subsection 3.1.15. is permitted on a *building* required to be of *noncombustible construction*.

(2) *Combustible* roof sheathing and roof sheathing supports installed above a concrete deck are permitted on a *building* required to be of *noncombustible construction* provided

- (a) the concrete deck is not less than 50 mm thick,
- (b) the height of the roof space above the deck is not more than 1 m,
- (c) the roof space is divided into compartments by fire stops in conformance with Article 3.1.11.5.,
- (d) openings through the concrete deck other than for *noncombustible* roof drains and plumbing piping are protected by masonry or concrete shafts constructed as *fire separations* having a *fire-resistance rating* of not less than 1 h and extending from the concrete deck to not less than 150 mm above the adjacent roof sheathing,
- (e) the perimeter of the roof is protected by a *noncombustible* parapet extending from the concrete deck to not less than 150 mm above the adjacent sheathing, and
- (f) except as permitted in Clause (d), the roof space does not contain any *building services*.

(3) *Combustible* cant strips, roof curbs, nailing strips and similar components used in the installation of roofing are permitted on a *building* required to be of *noncombustible construction*.

(4) Wood nailer facings to parapets, not more than 600 mm high, are permitted on a *building* required to be of *noncombustible construction*, if the facings and any roof membranes covering the facings are protected by sheet metal.

### 3.1.5.4. Combustible Glazing and Skylights

(1) *Combustible* skylight assemblies are permitted in a *building* required to be of *noncombustible construction* provided the assemblies have a *flame-spread rating* of not more than

- (a) 150 where the assemblies have an individual area not more than 9 m<sup>2</sup> and an aggregate horizontal projected area of the openings through the ceiling not more than 25 per cent of the area of the ceiling of the room or space in which they are located and are spaced not less than 2.5 m from adjacent assemblies and 1.2 m from required *fire separations*, or
- (b) 75 where the assemblies have an individual area not more than 27 m<sup>2</sup> and an aggregate horizontal projected area of the openings through the ceiling not more than 33 per cent of the area of the ceiling of the room or space in which they are located and are spaced not less than 1.2 m from adjacent assemblies and from required *fire separations*.

(2) *Combustible* vertical glazing installed no higher than the second storey is permitted in a *building* required to be of *noncombustible construction* provided the glazing has a *flame-spread rating* of not more than 75, except that the *flame-spread rating* is permitted to be not more than 150 where the aggregate area of the glazing is not more than 25 per cent of the wall area of the storey in which it is located, and

- (a) the glazing is installed in a *building* of 1 storey in *building height*, or
- (b) the glazing in the *first storey* is separated from the glazing in the second storey by apron walls, spandrel walls or canopies conforming to Article 3.2.3.17.

(3) *Combustible* window sash and frames are permitted in a *building* required to be of *noncombustible* construction provided

- (a) each window in an exterior wall face is an individual unit separated by *noncombustible* wall construction from every other opening in the wall,
- (b) windows in exterior walls in contiguous *storeys* are separated by not less than 1 m of *noncombustible* construction, and
- (c) the aggregate area of openings in an exterior wall face of a *fire compartment* is not more than 40 per cent of the area of the wall face.

### 3.1.5.5. Combustible Cladding

(1) Except when *noncombustible* cladding is required by Subsection 3.2.3., an exterior non-loadbearing wall assembly that includes *combustible* cladding components is permitted to be used in a *building* required to be of *noncombustible* construction that is not more than 3 *storeys* in *building height*, if not *sprinklered*, and not more than 6 *storeys* in *building height*, if *sprinklered*, provided the interior surfaces of the wall assembly are protected by a thermal barrier conforming to Sentence 3.1.5.11.(3) and the wall assembly satisfies the criteria of Sentences (5) and (6) when subjected to testing in conformance with Sentences (2) to (4).

(2) The fire testing required by Sentence (1) shall be conducted on a wall assembly that

- (a) is not less than 5 m wide and not less than 10 m high with an opening  $2.5 \pm 0.1$  m wide by  $1.4 \pm 0.1$  m high, located in the middle of the assembly not more than 3 m above the lowest edge,
- (b) is representative of the exterior wall construction, except for the interior finish, and
- (c) incorporates horizontal and vertical joints not more than 3 m vertically above the opening.

(3) The wall assembly shall be exposed on its exterior face to a flame issuing from the opening that, on a *noncombustible* wall having a density of not less than  $700 \text{ kg/m}^3$  to a depth of 12 mm from the exposed surface, generates an average heat flux between

- (a) 42 and  $48 \text{ kW/m}^2$  measured 0.5 m above the opening, and
- (b) 25 and  $29 \text{ kW/m}^2$  measured 1.5 m above the opening.

(4) The duration of exposure to the flame specified in Sentence (3) shall be not less than 15 min following a 5 min gradual heat flux increase and preceding a 5 min gradual cooldown period after the flame exposure.

(5) Flaming on or in the wall assembly shall not spread more than 5 m above the opening during or following the flame exposure of 25 min.

(6) The heat flux during the flame exposure on a wall assembly shall be not more than  $35 \text{ kW/m}^2$  measured 3.5 m above the opening.

(7) A wall assembly permitted by Sentence (1) that includes *combustible* cladding of *fire-retardant treated wood* shall be tested for fire exposure after the cladding has been subjected to an accelerated weathering test as specified in ASTM D2898, "Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing."

(8) Wood decorative cladding is permitted to be used on exterior canopy fascias of a *building* required to be of *noncombustible* construction provided it is *fire-retardant treated wood* that has been, before testing, conditioned in conformance with ASTM D2898, "Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing", and the canopy is

- (a) a first floor canopy, or
- (b) not more than 6 m above ground level.

3.1.5.6. **Nailing Elements.** Wood nailing elements attached directly to or set into a continuous *noncombustible* backing for the attaching of interior finishes, are permitted in a *building* required to be of *noncombustible* construction provided the concealed space created by the wood elements is not more than 50 mm thick.

3.1.5.7. **Combustible Millwork.** *Combustible* millwork including interior trim, doors and door frames, show windows together with their frames, aprons and backing, handrails, shelves, cabinets and counters are permitted in a *building* required to be of *noncombustible* construction.

**3.1.5.8. Combustible Flooring Elements**

(1) *Combustible stage* flooring supported on *noncombustible* structural members is permitted in a *building* required to be of *noncombustible construction*.

(2) Wood members more than 50 mm but not more than 300 mm high applied directly to or set into a *noncombustible* floor slab are permitted for the support of finished flooring in a *building* required to be of *noncombustible construction* provided the concealed spaces are fire stopped in conformance with Sentence 3.1.11.3.(2).

(3) *Combustible* finished flooring is permitted in a *building* required to be of *noncombustible construction*.

**3.1.5.9. Combustible Stairs in Dwelling Units.** *Combustible* stairs are permitted in a *dwelling unit* in a *building* required to be of *noncombustible construction*.

**3.1.5.10. Combustible Interior Finish**

(1) *Combustible* interior finish including paint, wallpaper, and other interior finishes not more than 1 mm thick are permitted in a *building* required to be of *noncombustible construction*.

(2) *Combustible* interior wall finishes, other than foamed plastics, are permitted in a *building* required to be of *noncombustible construction* provided they

- (a) are not more than 25 mm thick, and
- (b) have a *flame-spread rating* of not more than 150 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction.

(3) *Combustible* interior ceiling finishes, other than foamed plastics, are permitted in a *building* required to be of *noncombustible construction* provided they

- (a) are not more than 25 mm thick, except for exposed *fire-retardant treated wood* battens, and
- (b) have a *flame-spread rating* of not more than 25 on any exposed surface or on any surface that would be exposed by cutting through the material in any direction or are of *fire-retardant treated wood*, except that not more than 10 per cent of the ceiling area within each *fire compartment* is permitted to have a *flame-spread rating* of not more than 150.

**3.1.5.11. Combustible Insulation and its Protection**

(1) *Combustible* insulation, other than foamed plastics, is permitted in a *building* required to be of *noncombustible construction* provided that it has a *flame-spread rating* of not more than 25 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, where the insulation is not protected as described in Sentences (2) to (4).

(2) Foamed plastic insulation having a *flame-spread rating* of not more than 25 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, is permitted in a *building* required to be of *noncombustible construction* provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within *attic or roof spaces*, crawl spaces, and wall assemblies by a thermal barrier consisting of

- (a) not less than 12.7 mm thick gypsum board mechanically fastened to a supporting assembly independent of the insulation,
- (b) lath and plaster, mechanically fastened to a supporting assembly independent of the insulation,
- (c) masonry,
- (d) concrete, or
- (e) any thermal barrier that meets the requirements of classification B when tested in conformance with CAN4-S124-M, "Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic".

(3) *Combustible* insulation having a *flame-spread rating* of more than 25 but not more than 500 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, is permitted in the exterior walls of a *building* required to be of *noncombustible construction* provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within the *attic or roof spaces*, crawl spaces, and wall assemblies, by a thermal barrier as described in Sentence (2), except that in unsprinklered *buildings* more than 18 m high or in unsprinklered *buildings* regulated by the provisions of Subsection 3.2.6., the insulation is protected by a thermal barrier consisting of



- (a) gypsum board not less than 12.7 mm thick, mechanically fastened to a supporting assembly independent of the insulation and with all joints either braced or taped and filled,
- (b) lath and plaster, mechanically fastened to a supporting assembly independent of the insulation,
- (c) masonry or concrete not less than 25 mm thick, or
- (d) any thermal barrier that, when tested in conformance with CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials", will not develop an average temperature rise of more than 140°C or a maximum temperature rise at any point of more than 180°C on its unexposed face within 10 min.

(4) *Combustible* insulation having a *flame-spread* rating of more than 25 but not more than 500 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, is permitted in the interior walls of a *building* required to be of *noncombustible construction* provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within *attic or roof spaces*, crawl spaces, and wall assemblies, by a thermal barrier as described in Sentence (2), except that in unsprinklered *buildings* more than 18 m high or in unsprinklered *buildings* regulated by the provisions of Subsection 3.2.6., the insulation is protected by a thermal barrier consisting of

- (a) Type X gypsum board not less than 15.9 mm thick conforming to CSA A82.27-M, "Gypsum Board Products", mechanically fastened to a supporting assembly independent of the insulation and with all joints either backed or taped and filled,
- (b) non-loadbearing masonry or concrete not less than 50 mm thick,
- (c) loadbearing masonry or concrete not less than 75 mm thick, or
- (d) any thermal barrier that, when tested in conformance with CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials", will not develop an average temperature rise of more than 140°C or a maximum temperature rise at any point of more than 180°C on its unexposed face within 20 min and will remain in place for not less than 40 min.

(5) *Combustible* insulation, including foamed plastics, installed above roof decks, outside of *foundation* walls below ground level and beneath concrete slabs-on-ground is permitted to be used in a *building* required to be of *noncombustible construction*.

(6) Thermosetting foamed plastic insulation having a *flame-spread rating* of not more than 500 which forms part of a factory-assembled exterior wall panel that does not incorporate an air space is permitted to be used in a *building* required to be of *non-combustible construction* provided

- (a) the foamed plastic is protected on both sides by sheet steel not less than 0.38 mm thick which will remain in place for not less than 10 min when the wall panel is tested in conformance with CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials",
- (b) the *flame-spread rating* of the wall panel, determined by subjecting a sample including an assembled joint to the appropriate test described in Subsection 3.1.12., is not more than the *flame-spread rating* permitted for the room or space which it bounds,
- (c) the *building* does not contain a Group B or Group C *major occupancy*, and
- (d) the *building* is not more than 18 m high, measured between *grade* and the floor level of the uppermost *storey*.

### 3.1.5.12. Combustible Elements in Partitions

(1) Solid lumber *partitions* not less than 38 mm thick and wood framing in *partitions*, located in *fire compartments* not more than 600 m<sup>2</sup> in area or in *sprinklered floor areas* are permitted to be used in a *building* required to be of *noncombustible construction* provided the *partitions*

- (a) are not required *fire separations*, and
- (b) are not located in Group B *occupancies*.

3.1.5.13. **Storage Lockers in Residential Buildings.** Storage lockers in storage rooms are permitted to be constructed of wood in *buildings* of *residential occupancy* required to be of *noncombustible construction*.

### 3.1.5.14. Combustible Ducts

(1) Except as permitted by Sentence 3.5.4.3.(1), *combustible* ducts, including *plenums* and duct connectors, are permitted to be used in a *building* required to be of *noncombustible construction* provided such ducts and duct connectors

- (a) are used only in horizontal runs, and
- (b) are Class 1 conforming to Article 6.2.3.2.

(2) *Combustible* duct linings, duct coverings, duct insulation, vibration isolation connectors, duct tape, pipe insulation and pipe coverings are permitted to be used in *buildings* required to be of *noncombustible construction* provided they conform to the appropriate requirements in Section 6.2.

### 3.1.5.15. Combustible Piping Materials

(1) Except as permitted in Clause 3.1.5.2.(1)(e) and Sentence (2), *combustible* totally enclosed raceways, piping and tubing and associated adhesives are permitted to be used in a *building* required to be of *noncombustible construction* provided they

- (a) have a *flame-spread rating* of not more than 25, except when concealed in a wall or a concrete floor slab, and
- (b) when used in *buildings* described in Subsection 3.2.6., have a smoke developed classification of not more than 50, except when concealed in a wall or a concrete floor slab.

(2) *Combustible* sprinkler piping is permitted to be used within a *sprinklered floor area* in a *building* required to be of *noncombustible construction*.

**3.1.5.16. Combustible Travelling Cables for Elevators.** *Combustible* travelling cables are permitted on elevating devices in *buildings* required to be of *noncombustible construction*.

### 3.1.5.17. Electrical Wires and Cables

(1) Except as permitted in Articles 3.1.5.16. and 3.1.5.19, electrical wires and cables with *combustible* insulation, jackets or sheathes are permitted in a *building* required to be of *noncombustible construction* provided

- (a) the wires and cables exhibit a vertical char of not more than 1.5 m when tested in conformance with the Vertical Flame Test - Cables in Cabletrough in Clause 4.11.4. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables", (FT4 Rating), or they comply with the test requirements in Subclause 3.5.4.3.(1) (a) (i), (FT6 Rating), or
- (b) the wires and cables are located in
  - (i) totally enclosed *noncombustible* raceways,
  - (ii) concealed spaces in walls,
  - (iii) concrete slabs, or
  - (iv) a *service room* separated from the remainder of the *building* by a *fire separation* having not less than a 1 h *fire-resistance rating*.

(2) Service-entrance cables for communication and community antennae distribution systems need not conform to Sentence (1) provided the service entrance cables enter into an electrical or telephone *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

**3.1.5.18. Combustible Plumbing Fixtures.** *Combustible* plumbing fixtures, including wall and ceiling enclosures, shall be constructed of material having a *flame-spread rating* and smoke developed classification not more than that permitted for the wall surface of the room or space in which they are installed.

**3.1.5.19. Wires in Computer Room Floors.** Electrical communication wires and cables with *combustible*, insulation, jackets or sheathes, located in computer room floors, are permitted in a *building* required to be of *noncombustible construction* provided they do not convey flame or continue to burn for more than 1 min when tested in conformance with the Vertical Flame Test in Clause 4.11.1. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables", (FT1 Rating).

**3.1.5.20. Combustible Components in Public Pools.** *Combustible* fittings and components in a *public pool*, including main drains, skimmers, return inlets, steps, ladder rungs and liners are permitted in a *building* required to be of *noncombustible construction*.

**3.1.5.21. Combustible Marquees.** *Combustible* marquees not greater than 7.5 m from *grade* to the top of the marquee are permitted on a *building* required to be of *noncombustible construction* provided every opening in the exposed exterior wall of the *building* within 4.5 m horizontally and 9 m vertically above the marquee is protected with wired glass in accordance with Sentence 3.1.8.14.(2).

**3.1.6. Tents, Air-Supported Structures and Temporary Structures**

**3.1.6.1. Means of Egress.** Tents, *air-supported structures* and temporary structures shall conform to Sections 3.3 and 3.4.

**3.1.6.2. Application**

(1) Reserved.

(2) *Air-supported structures* shall not be used for Groups B, C or Group F, Division 1 *major occupancies* or for classrooms.

(3) *Air-supported structures* shall be designed primarily as open floor space without interior walls, mezzanines, intermediate floors or similar construction.

(4) A tent used for camping or personal use and not more than 30 m<sup>2</sup> in ground area is exempt from requiring a building permit and is exempt from compliance with this Code.

(5) For the purposes of this Subsection, a temporary structure means a *building* or structure intended to be erected and used for a period of not more than 12 months.

**3.1.6.3. Clearance to Other Structures**

(1) Except for tents used for camping and other personal uses and except as provided in Sentences (2), (3) and (4), every tent, *air-supported structure* and temporary structure shall conform to Subsection 3.2.3.

(2) Tents and *air-supported structures* shall not be erected closer than 3 m to other structures on the same property except as provided in Sentences (3) and (4), and shall be sufficiently distant from one another to provide an area to be used as a means of emergency egress.

(3) Tents and *air-supported structures* not occupied by the public need not be separated from one another, and are permitted to be erected less than 3 m from other structures on the same property where such closer spacing does not create a hazard to the public.

(4) Tents not more than 120 m<sup>2</sup> in ground area, located on fair grounds or similar open spaces, need not be separated from one another provided such closer spacing does not create a hazard to the public.

**3.1.6.4. Clearance to Flammable Material.** The ground enclosed by a tent or *air-supported structure* and for not less than 3 m outside of such structure shall be cleared of all flammable material or vegetation that will carry fire.

**3.1.6.5. Flame Resistance.** Every tent and all tarpaulins and decorative materials used in connection with tents and *air-supported structures* shall conform to CAN/ULC S-109-M, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

**3.1.6.6.** Reserved.

**3.1.6.7. Design of Framing and Support.** The supporting framing structure and anchorage system for all tents more than 225 m<sup>2</sup> in ground area shall be designed by a *professional engineer*.

**3.1.6.8. Design of Temporary Structures**

(1) Except for tool sheds or similar structures, the structural components of a temporary structure shall be designed in conformance with

- (a) Subsection 4.1.6. for the intended use,
- (b) Subsection 4.1.7. for snow and rain, and
- (c) Subsection 4.1.8. for wind.

**3.1.7. Fire-Resistance Ratings****3.1.7.1. Determination of Ratings**

(1) Except as provided in Sentence (2) and Article 3.1.7.2., where a material, assembly of materials or a structural member is required to have *fire-resistance rating*, the rating shall be determined on the basis of the results of tests conducted in conformance with CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials."

(2) A material, assembly of materials or a structural member is permitted be assigned a *fire-resistance rating* on the basis of Chapter 2, "Fire Performance Ratings" of the Supplement to the NBC 1990.



**3.1.7.2. Exception for Exterior Walls.** The limitation on the rise of temperature on the unexposed surface of an assembly as required by the tests in Sentence 3.1.7.1.(1) shall not apply to an exterior wall that has a *limiting distance* of 1.2 m or more provided correction is made for radiation from the unexposed surface in accordance with Article 3.2.3.12.

**3.1.7.3. Lay-in Ceiling Panels.** Where a ceiling construction has a suspended membrane ceiling with lay-in panels or tiles which contribute to the required *fire-resistance rating* of the assembly, hold down clips or other means shall be provided to prevent the lifting of such panels or tiles in the event of a fire.

#### **3.1.7.4. Exposure Conditions for Ratings**

- (1) Floor, roof and ceiling assemblies shall be rated for exposure to fire on the underside.
- (2) *Firewalls* and interior vertical *fire separations* shall be rated for exposure to fire on each side.
- (3) Exterior walls shall be rated for exposure to fire from inside the *building*.

**3.1.7.5. Minimum Fire-Resistance Rating.** The use of materials or assemblies of materials having a greater *fire-resistance rating* than required shall entail no obligation to exceed in whole or in part the minimum *fire-resistance ratings* required by this Part.

#### **3.1.7.6. Rating of Supporting Construction**

(1) Except as provided in Sentence (2) and in Articles 3.2.2.16. to 3.2.2.62. for mixed types of construction, all *loadbearing* walls, columns and arches in the *storey* immediately below a floor or roof assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* not less than that of the supported floor or roof assembly.

(2) *Loadbearing* walls, columns and arches supporting a *service room* or *service space* need not conform to Sentence (1).

(3) Where an assembly is required to be of *noncombustible construction* and have a *fire-resistance rating*, it shall be supported by *noncombustible construction*.

#### **3.1.8. Fire Separations and Closures**

##### **3.1.8.1. General Requirements**

- (1) Any wall, *partition* or floor assembly required to be a *fire separation* shall
  - (a) except as permitted in Sentence (2), be constructed as a continuous element, and
  - (b) where required in this Part, have a *fire-resistance rating* as specified.

(2) Openings in *fire separations* shall be protected with *closures*, shafts or other means in conformance with Articles 3.1.8.4. to 3.1.8.17. and with Subsections 3.1.9. and 3.2.8.

**3.1.8.2. Combustible Construction Support.** *Combustible construction* that abuts on or is supported by a *noncombustible fire separation* shall be constructed so that its collapse under fire conditions will not cause the collapse of the *fire separation*.

##### **3.1.8.3. Continuity of Fire Separations**

(1) Except as provided in Sentence 3.5.4.2.(2), a *horizontal service space* or other concealed space located above a required vertical *fire separation*, including the walls of a vertical shaft, shall be divided at the *fire separation* by an equivalent *fire separation* within the *service space*, and the separation shall terminate so that a smoke-tight joint is provided at the point where it abuts on or intersects the floor and the roof slab or deck.

(2) Where a shaft, including *exit* enclosures, penetrates a *fire separation*, it shall extend through any *horizontal service space* or any other concealed space and shall terminate so that a smoke-tight joint is provided at the point where the shaft abuts on or intersects the floor and the roof slab or deck, except as provided in Subsection 3.5.3. where the shaft pierces through a roof assembly.

##### **3.1.8.4. Determination of Ratings**

(1) Except as provided in Sentences (2) and 3.1.8.14.(2), where an opening in a *fire separation* is required to be protected with a *closure* having a *fire-protection rating*, the *fire-protection rating* shall be determined on the basis of the results of tests conducted in conformance with the appropriate provisions in CAN4-S106-M, "Standard Method for Fire Tests of Window and Glass Block Assemblies", CAN4-S104-M, "Standard Method for Fire Tests of Door Assemblies", or CAN4-S112-M, "Standard Method of Fire Test of Fire Damper Assemblies".

(2) Except as provided in Sentence 3.1.8.10.(1), the *fire-protection rating* of closures shall conform to Table 3.1.8.A. for the required grade of *fire separation*.

**Table 3.1.8.A.**  
Forming Part of Sentence 3.1.8.4.(2)

<i>Fire-Resistance Rating of Fire Separation</i>	<i>Required Fire-Protection Rating of Closure</i>
45 min	45 min
1 h	45 min
1.5 h	1 h
2 h	1.5 h
3 h	2 h
4 h	3 h
Column 1	2

### 3.1.8.5. Installation of Closures

(1) Except where *fire dampers*, window assemblies and glass block are used as *closures*, *closures* of the same *fire-protection rating* installed on opposite sides of the same opening may be deemed to have a *fire-protection rating* equal to the sum of the *fire-protection ratings* of the *closures*.

(2) Except as otherwise specified in this Part, every fire door, window assembly or glass block used as a *closure* in a required *fire separation* shall

- (a) be installed in conformance with Chapters 2 to 14 of NFPA 80, "Fire Doors and Windows", and
- (b) where required to have a *fire-protection rating*, have labels or classification marks to identify the testing laboratory.

(3) Where a door is installed so that it may damage the integrity of a *fire separation* if its swing is unrestricted, door stops shall be installed to prevent such damage.

### 3.1.8.6. Maximum Openings

(1) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall be not more than 11 m<sup>2</sup>, with no dimension more than 3.7 m, when the *fire compartments* on both sides of the *fire separation* are not *sprinklered*.

(2) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall be not more than 22 m<sup>2</sup>, with no dimension more than 6 m, when the *fire compartments* on both sides of the *fire separation* are *sprinklered*.

### 3.1.8.7. Fire Dampers

(1) Except as permitted in Article 3.1.8.8., a duct that connects 2 *fire compartments* or that penetrates an assembly required to be a *fire separation* shall be equipped with a *fire damper*.

(2) A *fire damper* required in Sentence (1) or a *fire damper* used as a *closure* in a *fire separation* shall have a *fire-protection rating* conforming to Sentence 3.1.8.4.(2).

### 3.1.8.8. Fire Dampers Waived

(1) *Fire dampers* need not be provided in *noncombustible* branch ducts that have a melting point above 760°C and that penetrate a required *fire separation* provided such ducts

- (a) serve only air-conditioning units or combined air-conditioning and heating units discharging air at not more than 1.2 m above the floor and have a cross-sectional area of not more than 130 cm<sup>2</sup>, or
- (b) are connected to *exhaust duct* risers that are under negative pressure and in which the air flow is upward as provided in Article 3.5.3.4. and are carried up inside the riser not less than 500 mm.

(2) A duct piercing a vertical *fire separation* not required to have a *fire-resistance rating* need not be equipped with a *fire damper* at the *fire separation*.

(3) A *noncombustible* duct piercing a horizontal *fire separation* not required to have a *fire-resistance rating* need not be equipped with a *fire damper* at the *fire separation*.

(4) *Noncombustible* ducts that penetrate a *fire separation* that separates a vertical service space from the

remainder of the *building* need not be equipped with a *fire damper* at the *fire separation* provided the ducts have a melting point above 760°C and each individual duct exhausts directly to the outside at the top of the *vertical service space*.

(5) A continuous *noncombustible* duct having a melting point above 760°C that pierces a vertical *fire separation* required in Sentence 3.3.1.1.(1) between *suites* of other than *residential* or *institutional occupancy* need not be equipped with a *fire damper* at the *fire separation*.

(6) A duct serving commercial cooking equipment and piercing a required *fire separation* need not be equipped with a *fire damper* at the *fire separation*.

### 3.1.8.9. Installation of Fire Dampers

(1) *Fire dampers* shall conform to the requirements of this Article.

(2) *Fire dampers* shall be arranged to close automatically upon the operation of a fusible link conforming to ULC-S505, "Standard for Fusible Links for Fire Protection Service" or other heat- or smoke-actuated device.

(3) Heat-actuated devices in Sentence (2) shall be located where they are readily affected by an abnormal rise of temperature in the duct and shall have a temperature rating approximately 30°C above the maximum temperature that would exist in the system either with the system in operation or shut down.

(4) *Fire dampers* shall be installed in the plane of the *fire separation* so as to stay in place should the duct be dislodged during a fire.

(5) *Fire dampers* tested in the vertical or horizontal position shall be installed in the manner in which they were tested.

(6) A tightly fitted access door shall be installed for each *fire damper* to provide access for the inspection of the damper and the resetting of the release device.

### 3.1.8.10. Twenty-Minute Closures

(1) A door assembly having a *fire-protection rating* of not less than 20 min is permitted to be used as a *closure* in

- (a) a *fire separation* not required to have a *fire-resistance rating* more than 1 h and located between
  - (i) a *public corridor* and a *suite*,
  - (ii) a corridor and adjacent sleeping rooms, or
  - (iii) a corridor and adjacent classrooms, offices and libraries in Group A, Division 2 *major occupancies*, and
- (b) a *fire separation* not required to have a *fire-resistance rating* more than 45 min, located in a *building* not more than 3 storeys in *building height*.

(2) The requirements for *noncombustible* sills and *combustible* floor coverings in NFPA 80, "Fire Doors and Windows" do not apply to doors described in Sentence (1).

(3) Doors described in Sentence (1) shall have a clearance of not more than 6 mm at the bottom and not more than 3 mm at the sides and top.

### 3.1.8.11. Self-Closing Devices

(1) Except as provided in Sentence (2), every door in a *fire separation* other than doors to freight elevators and dumbwaiters shall be equipped with a self-closing device designed to return the door to the closed position after each use.

(2) Self-closing devices need not be provided on doors that are located between

- (a) a corridor providing *access to exit* from classrooms and the adjacent classrooms in a *building* that is not more than 3 storeys in *building height*,
- (b) a *public corridor* and adjacent rooms of Group D *occupancy* in a *building* that is not more than 3 storeys in *building height* and the doors are not located in a dead-end portion of the corridor, or
- (c) sleeping rooms or a corridor and adjacent sleeping rooms where the doors are within a *fire compartment* described in Sentence 3.3.3.7.(2).



**3.1.8.12. Hold Open Devices**

(1) Listed hold-open devices are permitted on doors in required *fire separations*, other than *exit* doors in a building more than 3 storeys in building height and doors in vestibules required in Article 3.3.5.8., provided they are designed to release the door in conformance with Sentences (2) to (4).

(2) Except as provided in Sentences (3) and (4), hold-open devices permitted in Sentence (1) shall be designed to release

- (a) upon a signal from a smoke detector located as described in Appendix A of NFPA 80, "Fire Doors and Windows", or from a *smoke detector* as required in Sentence 3.2.4.12.(1) for sleeping rooms in Group B occupancies, except that hold-open devices on doors other than *exit* doors, doors opening into a *public corridor* and egress doors referred to in Sentence 3.4.2.4.(2) are permitted to be released by a sprinkler system or a heat-actuated device provided the door does not serve a Group A, Group B or Group C occupancy and is not required to function as part of a smoke control system, and
- (b) upon a signal from the building fire alarm system where a fire alarm system is provided, except that this requirement does not apply to a hold-open device that is designed to release by a heat-actuated device in conformance with Clause (a).

(3) In Group F, Division 2 and 3 occupancies, the hold-open devices in Sentence (1) are permitted to be designed to release upon a signal from a *smoke detector* located as described in Appendix A of NFPA 80, "Fire Doors and Windows".

(4) In hospitals and nursing homes, a hold open-device on a door located between a corridor used by the public and an adjacent sleeping room shall be designed to release the door upon a signal from the fire alarm system when an *alert signal* is initiated within the same zone in Sentence 3.3.3.6.(6) or the same *fire compartment* in Sentence 3.3.3.7.(2).

**3.1.8.13. Door Latches.** Except as permitted in Subsection 3.3.3., every swing-type door in a *fire separation* shall be equipped with a positive latching mechanism designed to hold the door in the closed position after each use.

**3.1.8.14. Wired Glass and Glass block**

(1) Except as provided in Articles 3.1.8.15. to 3.1.8.17. for the separation of *exits*, an opening or openings in a *fire separation* having a *fire-resistance rating* of not more than 1 h may be protected with fixed wired glass assemblies or glass blocks installed in conformance with NFPA 80, "Fire Doors and Windows".

(2) Wired glass assemblies in Sentence (1), which are used in vertical *fire separations*, need not be tested in conformance with Sentence 3.1.8.4.(1) provided that the wired glass is

- (a) not less than 6 mm thick,
- (b) reinforced by a steel wire mesh in the form of diamonds, squares or hexagons having dimensions of approximately 25 mm across the flats, using wire of not less than 0.45 mm diam, or approximately 13 mm across the flats, using wire of not less than 0.40 mm diam, the wire to be centrally embedded during manufacture and welded or intertwined at each intersection,
- (c) set in fixed steel frames having a minimum metal thickness of 1.35 mm and providing a glazing stop of not less than 20 mm on each side of the glass, and
- (d) limited in area so that
  - (i) individual panes are not more than 0.84 m<sup>2</sup>, with neither height nor width more than 1.4 m, and
  - (ii) the area not structurally supported by mullions is not more than 7.5 m<sup>2</sup>.

(3) Where glass blocks are permitted in Sentence (1), they shall be installed in accordance with Subsection 4.3.2. and reinforced with steel reinforcement in each horizontal joint.

**3.1.8.15. Temperature Rise Limit for Doors.** Except as provided in Article 3.1.8.17., the maximum temperature rise on the opaque portion of the unexposed side of a door used as a *closure* in a *fire separation*, when tested in conformance with Sentence 3.1.8.4.(1), shall conform to Table 3.1.8.B. when used in the locations shown in the Table.

**3.1.8.16. Area Limits for Wired Glass or Glass Block.** Except as provided in Article 3.1.8.17., the maximum area of wired glass in a door and the maximum area of wired glass panels or glass block not in a door shall conform to Table 3.1.8.B. when used in the locations shown in the Table.

**3.1.8.17. Temperature Rise and Area Limits Waived**

(1) The temperature rise limits and glass area limits required in Articles 3.1.8.15. and 3.1.8.16. are waived for *closures* between an *exit* enclosure and an enclosed vestibule or corridor provided

- (a) the vestibule or corridor is separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* of not less than 45 min,
- (b) the separation in Clause (a) contains no wired glass or glass block within 3 m of the *closure* into the *exit* enclosure, and
- (c) the vestibule or corridor contains no *occupancy*.

**Table 3.1.8.B.**

Forming Part Articles of 3.1.8.15. and 3.1.8.16.

Location	Minimum Required Fire-Protection Rating of Door	Maximum Temperature Rise on Unexposed Side of Door, °C	Maximum Area of Wired Glass in Door, cm <sup>2</sup>	Maximum Aggregate Area of Wired Glass Panels and Glass Block not in Door, cm <sup>2</sup>
Between a dead-end corridor and an adjacent <i>occupancy</i> where the corridor provides the only <i>access to exit</i> and is required to have a <i>fire-resistance rating</i>	Less than 45 min	No limit	No limit	No limit
Between an <i>exit</i> enclosure and the remainder of the <i>floor area</i> in <i>buildings</i> not more than 3 <i>storeys</i> in <i>building height</i>	All ratings	No limit	8 000	8 000
Between an <i>exit</i> enclosure and the remainder of the <i>floor area</i> except as permitted above	45 min	250 after 30 min	645	645
	1.5 h	250 after 1 h	645	645
	2 h	250 after 1 h	645	645
In a <i>firewall</i>	1.5 h	250 after 30 min	645	0
	3 h	250 after 1 h	0	0
Column 1	2	3	4	5

**3.1.9. Building Services in Fire Separations and Fire Rated Assemblies****3.1.9.1. Fire Stopping of Service Penetrations**

(1) Piping, tubing, ducts, *chimneys*, electrical wires and cables, totally enclosed *noncombustible* raceways, electrical outlet boxes and other similar *building services* that penetrate a membrane forming part of an assembly required to have a *fire-resistance rating*, or a *fire separation* shall be

- (a) tightly fitted, or
- (b) sealed by a firestop system that, when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", has an F rating not less than the *fire-protection rating* required for *closures* in the *fire separation*.

(2) Piping, tubing, ducts, *chimneys*, electrical wires and cables, totally enclosed *noncombustible* raceways, electrical outlet boxes and other similar *building services* that penetrate a *firewall* or a horizontal *fire separation* that is required to have a *fire-resistance rating* in conformance with Article 3.2.1.2., shall be sealed

at the penetration by a firestop system that, when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", has an FT rating not less than the *fire-resistance rating* for the *fire separation*.

**3.1.9.2. Combustibility of Service Penetrations.** Except as permitted in Articles 3.1.9.3. and 3.1.9.4., pipes, ducts, electrical outlet boxes, totally enclosed raceways or other similar service equipment that partly or wholly penetrate an assembly required to have a *fire-resistance rating* shall be *noncombustible* unless the assembly has been tested incorporating such equipment.

**3.1.9.3. Penetration by Wires, Cables and Outlet Boxes**

(1) Electrical or similar wiring in totally enclosed *noncombustible* raceways is permitted to partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Article 3.1.9.2.

(2) Except as permitted by Sentence (3), electrical wires or cables, single or grouped, with *combustible* insulation, jackets or sheathes that conform to the requirements of Clause 3.1.5.17.(1)(a) and that are not installed in totally enclosed *noncombustible* raceways are permitted to partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Article 3.1.9.2. provided the overall diameter of the single or grouped wires or cables is not more than 25 mm.

(3) Single conductor metal sheathed cables that are not grouped, have *combustible* jacketing and are more than 25 mm in overall diameter are permitted to penetrate a *fire separation* required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Article 3.1.9.2.

(4) *Combustible* totally enclosed raceways which are embedded in a concrete floor slab are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Article 3.1.9.2., where the concrete provides not less than 50 mm of cover between the conduit and the bottom of the slab.

(5) *Combustible* outlet boxes are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Article 3.1.9.2. provided the opening through the membrane into the box is not more than 160 cm<sup>2</sup>.

(6) Outlet boxes that penetrate opposite sides of a wall assembly shall be offset where necessary to maintain the integrity of the *fire separation*.

**3.1.9.4. Combustible Piping Penetrations**

(1) *Combustible* sprinkler piping is permitted to penetrate a *fire separation* provided the *fire compartments* on each side of the *fire separation* are *sprinklered*.

(2) Reserved.

(3) Except as permitted in Sentences (4) to (8), *combustible* piping shall not be used where any part of the piping system partly or wholly penetrates a *fire separation* required to have a *fire-resistance rating* or penetrates a membrane that forms part of an assembly required to have a *fire-resistance rating*.

(4) *Combustible* piping is permitted to penetrate a *fire separation* required to have a *fire-resistance rating* or a membrane that forms part of an assembly required to have a *fire-resistance rating* provided

(a) the piping is sealed at the penetration by a firestop system that has an F rating not less than the *fire-resistance rating* required for the *fire separation* when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", with a pressure differential of 50 Pa between the exposed and unexposed sides, with the higher pressure on the exposed side, and

(b) the piping is not located in a vertical shaft.

(5) *Combustible* drain piping is permitted to penetrate a horizontal *fire separation* provided it leads directly from a *noncombustible* water closet through a concrete floor slab.

(6) *Combustible* piping is permitted on one side of a vertical *fire separation* provided it is not located in a vertical shaft.

(7) *Combustible* piping is permitted to penetrate a vertical or horizontal *fire separation* provided the *fire compartments* on each side of the *fire separation* are *sprinklered*.

(8) *Combustible* piping not more than 25 mm in diameter containing chlorine gas is permitted to penetrate a *fire separation* between a chlorine gas *service room* built in conjunction with a *public pool*, and the remainder of the *building*.



### 3.1.9.5. Openings through Membrane Ceilings

(1) A membrane ceiling forming a part of an assembly assigned a *fire-resistance rating* on the basis of Chapter 2, "Fire Performance Ratings" of the Supplement to the NBC 1990 is permitted to be pierced by openings leading into ducts within the ceiling space provided the ducts are sheet steel and the amount of openings and their protection conform to the requirements of Chapter 2, "Fire Performance Ratings".

(2) Fire stop flaps in ceiling membranes required in Sentence (1) shall conform to CAN4-S112.2-M, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies".

**3.1.9.6. Plenums.** A ceiling assembly used as a *plenum* shall conform to Article 3.5.4.3.

### 3.1.10. Firewalls

#### 3.1.10.1. Prevention of Firewall Collapse

(1) Except as permitted in Sentence (2), where structural framing members are connected to or supported on a *firewall* and such members have *fire-resistance ratings* less than that required for the *firewall*, the connections and supports for such members shall be designed so that the collapse of the framing members during a fire will not cause the collapse of the *firewall*.

(2) Sentence (1) does not apply when a *firewall* consists of two separate wall assemblies each tied to its respective *building* frame but not to each other provided each wall assembly is constructed as a *fire separation* having one half of the *fire-resistance rating* required for the *firewall* in Sentences 3.1.10.2.(1) and (2) and designed so that the collapse of one wall assembly will not cause collapse of the other.

(3) A *firewall* is permitted to be supported on the structural frame of the *building* in *buildings* of *noncombustible construction* provided such supporting frame has a *fire-resistance rating* not less than that required for the *firewall*.

(4) Piping, ducts and totally enclosed *noncombustible* raceways shall be installed so that the collapse of such piping, ducts and conduit will not cause collapse of the *firewall*.

#### 3.1.10.2. Rating of Firewalls

(1) Every required *firewall* which separates a *building* or *buildings* with *floor areas* containing a Group E or a Group F, Division 1 or 2 *major occupancy* shall be constructed as a *fire separation of noncombustible construction* having a *fire-resistance rating* of not less than 4 h, except that where the upper portion of a *firewall* separates *floor areas* containing other than Group E or Group F, Division 1 or 2 *major occupancies*, the *fire-resistance rating* of the upper portion of the *firewall* is permitted to be not less than 2 h.

(2) Every required *firewall* which separates a *building* or *buildings* with *floor areas* containing *major occupancies* other than Group E or Group F, Division 1 or 2 shall be constructed as a *fire separation of noncombustible construction* having a *fire-resistance rating* of not less than 2 h.

(3) Except for *closures*, the required *fire-resistance rating* of every *firewall* shall be provided by masonry or concrete.

#### 3.1.10.3. Continuity of Firewalls

(1) Every *firewall* shall extend from the ground continuously through all *storeys* of a *building* or *buildings* so separated, except that where a *firewall* is located above a *basement storage garage* conforming to Article 3.2.1.2., the *firewall* is permitted to terminate at the floor assembly immediately above the *storage garage*.

(2) A *firewall* is permitted to terminate on the underside of a reinforced concrete roof slab provided

(a) the roof slab on both sides of the *firewall* has a

(i) *fire-resistance rating* of not less than 1 h if the *firewall* is required to have a *fire-resistance rating* of not less than 2 h, or

(ii) *fire-resistance rating* of not less than 2 h if the *firewall* is required to have a *fire-resistance rating* of not less than 4 h, and

(b) there are no concealed spaces within the roof slab in that portion immediately above the *firewall*.

#### 3.1.10.4. Parapets

(1) Except as provided in Sentences (2) and 3.1.10.3.(2), every *firewall* shall extend above the roof surface to form a parapet not less than

(a) 150 mm high for a *firewall* required to have a *fire-resistance rating* of not less than 2 h, and

(b) 900 mm high for a *firewall* required to have a *fire-resistance rating* of not less than 4 h.

(2) Where a *firewall* separates 2 *buildings* with roofs at different elevations, the *firewall* need not extend above the upper roof surface to form a parapet where the difference in elevation between the roofs so separated is more than 3 m.

**3.1.10.5. Maximum Openings.** Openings in a *firewall* shall conform to the size limits described in Article 3.1.8.6. and the aggregate width of openings shall be not more than 25 per cent of the entire length of the *firewall*.

**3.1.10.6. Exposure Protection for Adjacent Walls.** Where the external walls of 2 *buildings* meet at a *firewall* at an angle of less than 135°, the requirements of Article 3.2.3.14. shall apply.

### **3.1.10.7. Combustible Projections**

(1) *Combustible* material shall not extend across the end of a *firewall* but is permitted to extend across a roof above a *firewall* that is terminated in conformance with Sentence 3.1.10.3.(2).

(2) When *buildings* are separated by a *firewall*, *combustible* projections on the exterior of one *building*, such as balconies, platforms, canopies, eave projections and stairs, that extend outward beyond the end of the *firewall*, shall not be permitted within 2.4 m of *combustible* projections and window or door openings of the adjoining *building*.

### **3.1.11. Fire Stops in Concealed Spaces**

**3.1.11.1. Separation of Concealed Spaces.** Concealed spaces in interior wall, ceiling and crawl spaces shall be separated from concealed spaces in exterior walls and *attic or roof spaces* by fire stops conforming to Article 3.1.11.7.

#### **3.1.11.2. Fire Stopping in Wall Assemblies**

(1) Except as permitted in Sentence (2), fire stops conforming to Article 3.1.11.7. shall be provided to block off concealed spaces within a wall assembly

- (a) at every floor level,
- (b) at every ceiling level where the ceiling forms part of an assembly required to have a *fire-resistance rating*, and
- (c) so that the maximum horizontal dimension is not more than 20 m and the maximum vertical dimension is not more than 3 m.

(2) Fire stops conforming to Sentence (1) are not required provided

- (a) the wall space is filled with insulation,
- (b) the exposed construction materials and any insulation within the wall space are *noncombustible*, or
- (c) the exposed construction materials and any insulation within the wall space have a *flame-spread rating* of not more than 25 on any exposed surface or on any surface that would be exposed by cutting through the material in any direction and fire stops are installed so that the vertical distance between them does not exceed 10 m.

#### **3.1.11.3. Fire Stopping between Nailing and Supporting Elements**

(1) In *buildings* required to be of *noncombustible construction*, where the ceiling finish exposed within a concealed space has a *flame-spread rating* of more than 25, fire stops conforming to Article 3.1.11.7. shall be provided between wood nailing elements so that the maximum area of the concealed space is not more than 2 m<sup>2</sup>.

(2) In *buildings* required to be of *noncombustible construction*, fire stops conforming to Article 3.1.11.7. shall be provided in the concealed spaces created by the wood members permitted in Sentence 3.1.5.8.(2) so that the maximum area of a concealed space is not more than 10 m<sup>2</sup>.

#### **3.1.11.4. Fire Stopping between Vertical and Horizontal Spaces**

(1) Fire stops conforming to Article 3.1.11.7. shall be provided

- (a) at all interconnections between concealed vertical and horizontal spaces in interior coved ceilings, drop ceilings and soffits in which the exposed construction materials within the space have a *flame-spread rating* of more than 25, and

- (b) at the end of each run and at each floor level in concealed spaces between stair stringers in which the exposed construction materials within the space have a *flame-spread rating* of more than 25.

### 3.1.11.5. Fire Stopping of Roof Spaces, Balconies and Canopies

(1) Every unsprinklered concealed space within a ceiling or roof assembly of *combustible construction*, including attic spaces, shall be separated by construction conforming to Article 3.1.11.7. into compartments not more than

- (a) 600 m<sup>2</sup> in area with no dimension more than 60 m where the exposed construction materials within the space have a *flame-spread rating* of not more than 25, and
- (b) 300 m<sup>2</sup> in area with no dimension more than 20 m where the exposed construction materials within the space have a *flame-spread rating* of more than 25.

(2) Every concealed space in exterior cornices, mansard style roofs, balconies and canopies in which the exposed construction materials within the space have a *flame-spread rating* of more than 25 shall be separated by construction conforming to Article 3.1.11.7.

- (a) at the points where such concealed spaces extend across the ends of required vertical *fire separations*, and
- (b) so that the maximum dimension in any concealed space is not more than 20 m.

**3.1.11.6. Fire Stopping of Crawl Spaces.** Every unsprinklered crawl space not considered as a *basement* in Article 3.2.2.5. shall be separated by construction conforming to Article 3.1.11.7. into compartments not more than 600 m<sup>2</sup> in area with no dimension more than 30 m.

### 3.1.11.7. Fire Stop Materials

(1) Except as provided in Sentences (2) to (4), materials used to separate concealed spaces into compartments shall remain in place and prevent the passage of flames for a period of not less than 15 min when subjected to the standard fire exposure in CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

(2) Gypsum wallboard not less than 12.7 mm thick and sheet steel not less than 0.38 mm thick need not be tested in conformance with Sentence (1) provided all joints have continuous support.

(3) In *buildings* required to be of *noncombustible construction*, wood nailing elements described in Article 3.1.5.6. need not be tested in conformance with Sentence (1).

(4) In *buildings* permitted to be of *combustible construction* and in *combustible* roof systems permitted by Sentence 3.1.5.3.(2), materials used to separate concealed spaces into compartments are permitted to be

- (a) solid lumber not less than 38 mm thick,
- (b) phenolic bonded plywood, waferboard, or strandboard not less than 12.5 mm thick with joints supported, or
- (c) 2 thicknesses of lumber each not less than 19 mm thick with joints staggered, where the width or height of the concealed space is such that more than one piece of lumber not less than 38 mm thick is necessary to block off the space.

(5) Openings through materials referred to in Sentences (1) to (4) shall be protected to maintain the integrity of the construction.

(6) Where materials referred to in Sentences (1) to (4) are penetrated by construction elements or by service equipment, fire stop materials shall be used to seal the penetration.

### 3.1.12. Flame-Spread Rating and Smoke Developed Classification

#### 3.1.12.1. Determination of Ratings

(1) Except as provided in Sentences (2) and (3), the *flame-spread rating* and smoke developed classification of a material, assembly of materials or structural member shall be determined on the basis of not less than 3 tests conducted in conformance with CAN/ULC-S102-M, "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies".

(2) The *flame-spread rating* and smoke developed classification of a material or assembly of materials shall be determined on the basis of not less than 3 tests conducted in conformance with CAN/ULC-S102.2-M, "Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies", where the material or assembly of materials



- (a) is designed for use in a relatively horizontal position with only its top surface exposed to air,
  - (b) cannot be tested in conformance with Sentence (1) without the use of supporting material that is not representative of the intended installation, or
  - (c) is thermoplastic.
- (3) A material, assembly of materials or a structural member is permitted to be assigned a *flame-spread rating* and smoke developed classification on the basis of Chapter 2, "Fire Performance Ratings" of the Supplement to the NBC 1990.

3.1.13. Interior Finish

3.1.13.1. Interior Finish Description

- (1) Interior finish material shall include any material that forms part of the interior surface of a floor, wall, *partition* or ceiling, such as
- (a) interior cladding of plaster, wood or tile,
  - (b) surfacing of fabric, paint, plastic, veneer or wallpaper,
  - (c) doors, windows and trim,
  - (d) lighting elements such as light diffusers and lenses forming part of the finished surface of the ceiling, and
  - (e) carpet material that overlies a floor, when such floor is not intended as the finished floor.

3.1.13.2. Flame-Spread Rating

- (1) Except as otherwise provided in this Subsection, the *flame-spread rating* of interior wall and ceiling finishes, including glazing and skylights, shall be not more than 150 and shall conform to Table 3.1.13.A.

Table 3.1.13.A.  
Forming Part of Sentence 3.1.13.2.(1)

Occupancy, Location or Element	Maximum <i>Flame-Spread Rating</i> for Walls and Ceilings	
	<i>Sprinklered</i>	Unsprinklered
Group A, Division 1 <i>occupancies</i> , including doors, skylights, glazing and light diffusers and lenses	150	75
Group B <i>occupancies</i>	150	75
<i>Exits</i> <sup>(1)</sup>	25	25
Lobbies described in Sentence 3.4.4.2.(2)	25	25
Covered vehicular passageways, except for roof assemblies of heavy <i>timber construction</i> in such passageways	25	25
<i>Vertical service spaces</i>	25	25
Column 1	2	3

Note to Table 3.1.13.A.:

- (1) See Articles 3.1.13.8, and 3.1.13.10.
- (2) Except as permitted in Sentence (3), doors, other than those in Group A, Division 1 *occupancies*, need not conform to Sentence (1) provided they have a *flame-spread rating* of not more than 200.
- (3) Doors within *dwelling units* need not conform to Sentences (1) and (2).
- (4) Where a wall or ceiling finish is required to have a *flame-spread rating* of less than 150 in Sentence (1), up to 10 per cent of the total wall area and 10 per cent of the total ceiling area is permitted to have a *flame-spread rating* of not more than 150, except that up to 25 per cent of the total wall area of lobbies described in Sentence 3.4.4.2.(2) is permitted to have a *flame-spread rating* of not more than 150.

(5) Except in the case of Group A, Division 1 *occupancies*, *combustible* doors, skylights, glazing and light diffusers and lenses shall not be considered in the calculation of wall and ceiling areas in Sentence (4).

**3.1.13.3. Bathrooms in Residential Suites.** The *flame-spread rating* of interior wall and ceiling finishes for bathrooms within *suites* of Group C *occupancy* shall be not more than 200.

**3.1.13.4. Light Diffusers and Lenses**

(1) The *flame-spread rating* of *combustible* light diffusers and lenses in all *occupancies* other than Group A, Division 1 *occupancies* is permitted to be more than the *flame-spread rating* limits required elsewhere in this Subsection provided the light diffusers and lenses

- (a) have a *flame-spread rating* of not more than 250 and a smoke developed classification of not more than 600 when tested in conformance with CAN/ULC-S102.2-M, "Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies",
- (b) fall to the bottom of the test apparatus before igniting when tested in conformance with ULC-S102.3-M, "Standard Method of Fire Test of Light Diffusers and Lenses",
- (c) are not prevented from falling from the ceiling by construction located beneath the elements, and
- (d) are not used in corridors that are required to be separated from the remainder of the *building* by a *fire separation* or in *exit* shafts unless individual diffusers or lenses are not more than 1 m<sup>2</sup> in area and are not less than 1.2 m apart.

**3.1.13.5. Skylights.** Individual *combustible* skylights in corridors that are required to be separated from the remainder of the *building* by a *fire separation* shall be not more than 1 m<sup>2</sup> in area and not less than 1.2 m apart.

**3.1.13.6. Corridors**

(1) Except where the *building* is *sprinklered*, the interior wall finish of *public corridors*, corridors used by the public in *assembly* and *institutional occupancies* and corridors serving classrooms or sleeping rooms in *institutional occupancies*, including *occupancies* in such corridors, shall have a maximum *flame-spread rating* of not more than

- (a) 75, or
- (b) 25 on the upper half of the wall and 150 on the lower half of the wall.

(2) Except where the *building* is *sprinklered*, the interior ceiling finish of corridors and *occupancies* in Sentence (1) shall have a *flame-spread rating* of not more than 25.

**3.1.13.7. High Buildings**

(1) Except as permitted in Sentences (2) and (3), and except for *combustible* plumbing fixtures including wall and ceiling enclosures and for light diffusers and lenses conforming to Sentence 3.1.13.4.(1), the interior wall, ceiling and floor finishes in a *building* regulated by the provisions of Subsection 3.2.6. shall conform to the *flame-spread rating* requirements in Article 3.1.13.2. and to the *flame-spread rating* and smoke developed classification values in Table 3.1.13.B.

(2) Except for *buildings* of Group B *major occupancy* and elevator cars, the *flame-spread rating* and smoke developed classification of interior wall, floor and ceiling finishes need not conform to the values in Table 3.1.13.B. provided the *building* is *sprinklered* and the sprinkler system is electrically supervised in conformance with Sentence 3.2.6.4.(1).

Table 3.1.13.B.  
Forming Part of Sentence 3.1.13.7.(1)

Location or Element	Maximum Flame-Spread Rating			Maximum Smoke Developed Classification		
	Wall Surface	Ceiling Surface <sup>(1)</sup>	Floor Surface	Wall Surface	Ceiling Surface <sup>(1)</sup>	Floor Surface
<i>Exit</i> stairways, vestibules to <i>exit</i> stairs and lobbies described in Sentence 3.4.4.2.(1)	25	25	25	50	50	50
Corridors not within <i>suites</i>	—	—	300	100	50	500
Elevator cars and vestibules	25	25	300	100	100	300
<i>Service spaces</i> and <i>service rooms</i>	25	25	25	50	50	50
Other locations and elements	—	—	No limit	300	50	No limit
Column 1	2	3	4	5	6	7

Note to Table 3.1.13.B:

- (1) See Sentence 3.1.13.4.(1) for lighting elements.
- (3) Trim, millwork and doors in *exit* stairways, vestibules to *exit* stairs, lobbies described in Sentence 3.4.4.2.(2) and corridors not within *suites* need not conform to the *flame-spread rating* and smoke developed classification requirements in Sentence (1) provided
- (a) they have a *flame-spread rating* of not more than 150 and a smoke developed classification of not more than 300, and
  - (b) their aggregate area is not more than 10 per cent of the area of the wall or ceiling on which they occur.
- (4) Reserved.

3.1.13.8. Noncombustible Construction

- (1) In *buildings* required to be of *noncombustible construction*,
- (a) the *flame-spread ratings* in Subsection 3.1.5. shall apply in addition to the requirements in this Subsection, and
  - (b) the *flame-spread ratings* for *exits* in this Subsection shall also apply to any surface in the *exit* that would be exposed by cutting through the material in any direction, except that this requirement does not apply to doors, *heavy timber construction* in *sprinklered buildings* and *fire-retardant treated wood*.

3.1.13.9. **Underground Walkways.** Except for paint, the interior wall and ceiling finishes of an underground *walkway* shall be of *noncombustible materials*.

3.1.13.10. **Exterior Exit Passageway.** Where an exterior *exit* passageway provides the only *means of egress* from the rooms or *suites* it serves, the wall and ceiling finishes of that passageway, including the soffit beneath and the *guard* on the passageway, shall have a *flame-spread rating* of not more than 25, except that a *flame-spread rating* of not more than 150 is permitted for up to 10 per cent of the total wall area and for up to 10 per cent of the total ceiling area.



**3.1.14. Roof Assemblies****3.1.14.1. Fire-Retardant Treated Wood Roof System**

(1) Where a *fire-retardant treated wood* roof system is used to comply with the requirements of Subsection 3.2.2., the roof deck assembly shall meet the conditions of acceptance of CAN/ULC-S126-M, "Standard Method of Test for Fire Spread Under Roof-Deck Assemblies".

(2) Supports for the roof deck assembly referred to in Sentence (1) shall consist of

- (a) *fire-retardant treated wood*,
- (b) *heavy timber construction*,
- (c) *noncombustible construction*, or
- (d) a combination thereof.

**3.1.14.2. Metal Roof Deck Assemblies**

(1) Except as permitted in Sentence (2), a metal roof deck assembly shall meet the conditions of acceptance of CAN/ULC-S126-M, "Standard Method of Test for Fire Spread under Roof-Deck Assemblies" if

- (a) it supports a *combustible* material above the deck that could propagate a fire beneath the roof deck assembly, and
- (b) the deck is used to comply with the requirements for *noncombustible construction* in Sentences 3.2.2.16.(2), 3.2.2.17.(2), 3.2.2.21.(2), 3.2.2.25.(2), 3.2.2.31.(2), 3.2.2.40.(2), 3.2.2.41.(2), 3.2.2.42.(2), 3.2.2.44.(2), 3.2.2.52.(2), 3.2.2.57.(2), 3.2.2.58.(2), and 3.2.2.59.(2).

(2) The requirements of Sentence (1) are waived provided

- (a) the *combustible* material above the roof deck is protected by a thermal barrier conforming to Clause 3.1.5.11.(2)(e) that is located
  - (i) on its underside, or
  - (ii) beneath the roof deck,
- (b) the *building* is *sprinklered* in accordance with Sentence 3.2.2.12.(1), or
- (c) the roof assembly has a *fire-resistance rating* of not less than 45 min.

**3.1.15. Roof Covering**

**3.1.15.1. Roof Covering Classification.** Where a roof covering is required to be a Class A, B or C roof covering, such classification shall be determined in conformance with CAN/ULC-S107-M, "Standard Method of Test for Fire Resistance of Roof Covering Materials".

**3.1.16. Occupant Load****3.1.16.1. Occupant Load Determination**

(1) The *occupant load* of a *floor area* or part of a *floor area*, or of a *building* or part of a *building* not having a *floor area*, shall be based on

- (a) the number of seats in *assembly occupancies* having fixed seats,
- (b) 2 persons per sleeping room or sleeping area in a *dwelling unit* or *suite*, and
- (c) the number of persons
  - (i) for which the area is designed, or
  - (ii) determined from Table 3.1.16.A. for *occupancies* other than those described in Clauses (a) and (b).

**Table 3.1.16.A.**  
Forming Part of Article 3.1.16.1.

Type of Use of <i>Building</i> or <i>Floor Area</i> or Part Thereof	Area per Person, m <sup>2</sup>
<b>Assembly uses</b>	
space with fixed seats	See Clause (1)(a)
space with nonfixed seats	0.75
stages for theatrical performances	0.75
space with nonfixed seats and tables	0.95
standing space	0.40
stadia and grandstands	0.60
bowling alleys, pool and billiard rooms	9.30
classrooms	1.85
school shops and vocational rooms	9.30
reading or writing rooms or lounges	1.85
dining, alcoholic beverage and cafeteria space	1.20
laboratories in schools	4.60
exhibition halls other than those classified in Group E	2.80
<b>Institutional uses</b>	
treatment and sleeping room areas	10.00
detention quarters	11.60
<b>Residential uses</b>	
<i>dwelling units</i>	See Clause (1)(b)
dormitories	4.60
<b>Business and personal services uses</b>	
personal service shops	4.60
offices	9.30
<b>Mercantile uses</b>	
<i>basements</i> and <i>first storeys</i>	3.70
second <i>storeys</i> having a principal entrance from a pedestrian thoroughfare or a parking area	3.70
other <i>storeys</i>	5.60
<b>Industrial uses</b>	
manufacturing or process rooms	4.60
<i>storage garages</i>	46.00
storage spaces (warehouse)	28.00
aircraft hangars	46.00
<b>Other uses</b>	
cleaning and repair goods	4.60
kitchens	9.30
storage	46.00
<i>public corridors</i> intended for <i>occupancies</i> in addition to pedestrian travel	3.70
Column 1	2

(2) Where a *floor area* or part thereof has been designed for an *occupant load* other than that determined from Table 3.1.16.A., a permanent sign indicating that *occupant load* shall be posted in a conspicuous location.

(3) For the purposes of this Article, *mezzanines*, tiers and balconies shall be regarded as part of the *floor area*.

(4) Where a room or group of rooms is intended for 2 or more *occupancies* at different times, the value to be used from Table 3.1.16.A. shall be the value which gives the greatest number of persons for the *occupancies* concerned.

**3.1.16.2. Dance Floor.** The *occupant load* of a room in which a dance floor is situated shall be calculated in respect of that portion of the room that is not occupied by the dance floor.

**3.1.16.3. Public Pools**

(1) The *occupant load* of a *public pool*, except a *wave action pool*, shall be determined by the following formula:

$$\text{occupant load} = \frac{D}{2.5} + \frac{S}{1.4}$$

where D = the water surface area in square metres of the part of the pool that is deeper than 1.35 m; and

where S = the water surface area in square metres of the part of the pool that is 1.35 m in depth or less.

(2) The *occupant load* of a *wave action pool* shall be determined by the following formula:

$$\text{occupant load} = \frac{D}{2.5} + \frac{S}{1.1}$$

where D = the water surface area in square metres of the part of the pool where the still water depth is greater than 1 m; and

where S = the water surface area in square metres of the part of the pool where the still water depth is 1 m or less.

**3.1.17. Drainage and Grades**

**3.1.17.1. Drainage.** The *building* shall be located and the *building* site graded so that water will not accumulate at or near the *building* and will not adversely affect any adjacent properties.

**3.1.18. Above Ground Electrical Conductors****3.1.18.1. Clearance to Buildings**

(1) Where a *building* is to be *constructed* in proximity to existing above ground electrical conductors of a voltage not less than 2.5 kV and not more than 46 kV,

(a) the *building* shall not be located beneath the conductors, and

(b) the horizontal distance between the *building* and the conductors shall not be less than 3 m.

(2) Where a *building* is to be *constructed* in proximity to existing above ground electrical conductors of a voltage more than 46 kV, the clearances between the *building* and the conductors shall conform to the requirements of CAN/CSA-C22.3 No.1, "Overhead Systems".

**3.1.18.2. Exception.** Article 3.1.18.1. does not apply to electrical equipment and electrical installations used exclusively in the generation, transformation or transmission of electrical power or energy intended for sale or distribution to the public.

**Section 3.2 Size and Occupancy Requirements for Fire Safety****3.2.1. General****3.2.1.1. Exceptions to Building Height in Storeys**

(1) Roof-top enclosures provided for elevator machinery, stairways and *service rooms*, used for no purpose other than for service to the *building*, shall not be considered as a *storey* in calculating the *building height*.

(2) Space under tiers of seats in *buildings* of the arena type shall not be considered as adding to the *building height* provided such space is used only for a purpose incidental to the *major occupancy* of the *building*, such as for dressing rooms or concession stands.

(3) Except as provided in Sentences (4), (5) and (8), a *mezzanine* shall not be considered as a *storey* in calculating the *building height* provided

(a) the aggregate area of the *mezzanine* floor is not more than 40 per cent of the area of the room or *storey* in which it is located,

(b) it is used as an open *floor area* except as provided in Sentence 3.3.2.11.(2), and

(c) the space above the *mezzanine* floor has no visual obstructions more than 1 070 mm above such floors.

(4) Except as provided in Sentence (5), a *mezzanine* shall not be required to be considered as a *storey* in calculating *building height* and need not conform to Sentence (3) where the aggregate area of the *mezzanine* floor does not exceed 10 per cent of the area of



- (a) the *suite* in which it is located, where there is more than one *suite* in the *storey*, or
- (b) the *storey* in which it is located, in all other cases.

(5) Except as provided in Sentence (8), where more than one level of *mezzanine* is provided in a room or *storey*, each level additional to the first shall be considered as a *storey* in calculating the *building height*.

(6) When a *mezzanine* is required to be considered as a *storey* in determining *building height*, its floor assembly shall be constructed in conformance with the *fire separation* requirements for *floor assemblies* in Articles 3.2.2.16. to 3.2.2.62.

(7) A *service space* in which facilities are included to permit a person to enter and to undertake maintenance and other operations pertaining to *building* services from within the *service space* need not be considered as a *storey* if it conforms to Articles 3.2.5.15. and 3.3.1.22., and Sentences 3.2.4.19.(2), 3.2.7.3.(2), 3.3.1.3.(7), 3.4.2.4.(3) and 3.4.4.4.(8).

(8) *Mezzanines*, elevated walkways and platforms in Group F, Division 2 or 3 *major occupancies* need not be considered as *storeys* in calculating *building height* provided

- (a) the *building* is of *noncombustible construction*,
- (b) except for Clause (c), the *mezzanines*, elevated walkways and platforms are intended solely for periodic service and maintenance, and
- (c) where they are intended to be occupied, no *mezzanine*, elevated walkway or platform shall have an *occupant load* more than 4 persons.

**3.2.1.2. Storage Garage Considered as a Separated Building.** Where a *basement* is used primarily as a *storage garage*, the *basement* is permitted to be considered as a separate *building* for the purposes of Subsection 3.2.2. provided the floor above the *basement* and the exterior walls of the *basement* above the adjoining ground level are constructed as *fire separations* of masonry or concrete having a *fire-resistance rating* of not less than 2 h.

**3.2.1.3. Roof Considered as a Wall.** For the purposes of this Section any part of a roof that is pitched at an angle of 60° or more to the horizontal and adjoins a space intended for *occupancy* within a *building* shall be considered as part of an external wall of the *building*.

#### **3.2.1.4. Floor Assembly over Basement**

(1) A floor assembly immediately above a *basement* shall be constructed as a *fire separation* having a *fire-resistance rating* conforming to the requirements for floor assemblies in Articles 3.2.2.16. to 3.2.2.62., but not less than 45 min.

(2) All *loadbearing* walls, columns and arches supporting a floor assembly immediately above a *basement* shall have a *fire-resistance rating* not less than that required in Sentence (1) for the floor assembly.

#### **3.2.1.5. Fire Containment in Basements**

(1) Except as provided in Sentences (2) and 3.2.2.11.(2), *basements* shall be *sprinklered* or shall be subdivided into *fire compartments* not more than 600 m<sup>2</sup> in area by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly immediately above the *basement*.

(2) An *open-air storey* need not conform to Sentence (1).

#### **3.2.2. Building Size and Construction Relative to Occupancy**

**3.2.2.1. Application.** Except as provided in Article 3.2.2.3., *buildings* shall be constructed in conformance with this Subsection to prevent fire spread and collapse caused by the effects of fire.

**3.2.2.2. Special and Unusual Structures.** Structures which cannot be identified with the descriptions of *buildings* in Articles 3.2.2.16. to 3.2.2.62. shall be protected against fire spread and collapse in conformance with good fire protection engineering practice, such as described in the NFPA Fire Protection Handbook, Sixteenth Edition.

#### **3.2.2.3. Exceptions to Structural Fire Protection**

(1) Fire protection is not required for

- (a) steel lintels over openings not more than 2 m wide in *loadbearing* walls and not more than 3 m wide in *non-loadbearing* walls,
- (b) steel lintels over openings greater than those in Clause (a) provided such lintels are supported at intervals of not more than 2 m by structural members with the required *fire-resistance rating*.

- (c) the bottom flanges of shelf angles and plates that are not a part of the structural frame,
- (d) steel members for framework around elevator shaft doorways, steel for the support of elevator and dumbwaiter guides, counterweights and other such equipment, when entirely enclosed in a shaft and not a part of the structural frame of a *building*,
- (e) steel members of stairways, including escalators, which are not a part of the structural frame of a *building*,
- (f) steel members of porches, exterior balconies, exterior stairways, fire escapes, cornices, marquees and other similar appurtenances provided they are outside an exterior wall of a *building*, and
- (g) *loadbearing* steel or concrete members wholly or partially outside of a *building* face in *buildings* not more than 4 storeys in *building height* and classified as Group A, B, C, D or F, Division 3 *major occupancy* provided such members are not less than 1 m away from any *unprotected opening* in an exterior wall, or shielded from heat radiation in the event of a fire within a *building* by construction that will provide the same degree of protection that would be necessary if the member was located inside the *building*, with the protection extending on either side of the member a distance equal to the projection of the member from the face of the wall.

**3.2.2.4. Lesser Restrictions.** When the *building height* or the *building area* could be regulated by more than one of Articles 3.2.2.16. to 3.2.2.62. for the same *occupancy* classification of the *building*, the least restrictive Article is permitted to be used.

### 3.2.2.5. Crawl Spaces

(1) For the purposes of Articles 3.2.1.4. and 3.2.1.5., a crawl space shall be considered as a *basement* when it is more than 1.8 m high between the lowest part of the floor assembly and the ground or other surface below or it is used

- (a) for any *occupancy*,
- (b) for the passage of *flue pipes*, or
- (c) as a *plenum* in *combustible construction*.

(2) A floor assembly immediately above a crawl space is not required to be constructed as a *fire separation* and is not required to have a *fire-resistance rating* provided the crawl space is not considered as a *basement* in Sentence (1).

### 3.2.2.6. Streets

(1) Every *building* shall face a *street* located in conformance with the requirements for access routes in Articles 3.2.5.5. and 3.2.5.6.

(2) For the purposes of Subsections 3.2.2. and 3.2.5. an access route conforming to Articles 3.2.5.5. and 3.2.5.6. is permitted to be considered as a *street*.

(3) A *building* is considered to face 2 *streets* when not less than 50 per cent of the *building* perimeter is located within 15 m of the *street* or *streets*.

(4) A *building* is considered to face 3 *streets* when not less than 75 per cent of the *building* perimeter is located within 15 m of the *street* or *streets*.

(5) Enclosed spaces, tunnels, bridges and similar structures even though used for vehicular or pedestrian traffic are not considered as *streets* for the purpose of this Part.

**3.2.2.7. Exterior Balconies.** Exterior balconies shall be constructed in accordance with the type of construction required in Articles 3.2.2.16. to 3.2.2.62., as applicable to the *occupancy* classification of the *building*.

**3.2.2.8. Exterior Passageways.** Elevated exterior passageways used as part of a *means of egress* shall conform to the requirements in Articles 3.2.2.16. to 3.2.2.62. for *mezzanines*.

**3.2.2.9. Occupancy on Roof.** Where a portion of a roof supports an *occupancy*, that portion shall be constructed in conformance with the *fire separation* requirements for floor assemblies in Articles 3.2.2.16. to 3.2.2.62.

### 3.2.2.10. Roof-Top Enclosures

(1) Roof-top enclosures provided for elevator machinery and *service rooms*, used for no purpose other than for service to the *building*, shall be constructed in accordance with the type of construction required in Articles

3.2.2.16. to 3.2.2.62., except that where such enclosure is not more than 1 *storey*, it is not required to have a *fire-resistance rating*.

(2) Roof-top enclosures for stairways including *exit* stairways shall be constructed in conformance with Articles 3.2.2.16. to 3.2.2.62., except that such enclosures need not have a *fire-resistance rating* nor be constructed as a *fire separation*.

### 3.2.2.11. Storeys Below Ground

(1) Where a *building* is erected entirely below the adjoining finished ground level and does not extend more than 1 *storey* below such ground level, the minimum precautions against fire spread and collapse shall be the same as are required for *basements* under a *building* of 1 *storey* in *building height* having the same *occupancy* and *building area*.

(2) Where a *building* or portion thereof is erected entirely below the adjoining finished ground level and extends more than 1 *storey* below such ground level, the following minimum precautions against fire spread and collapse shall be taken:

- (a) except as provided in Sentence (3), *basements* shall be *sprinklered*,
- (b) floor assemblies below such ground level shall be constructed as a
  - (i) *fire separation* with a *fire-resistance rating* of not less than 3 h where the *basements* are occupied by Group E or Group F, Division 1 or 2 *occupancies*, and
  - (ii) *fire separation* with a *fire-resistance rating* of not less than 2 h where the *basements* are occupied by any other *occupancy*, and
- (c) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the construction that they support.

(3) The *storey* immediately below the *first storey* need not be *sprinklered* as required by Clause (2) (a) where

- (a) it contains only *residential occupancies*, and
- (b) not less than one unobstructed access opening conforming to Sentence 3.2.5.1.(2) is installed on that *storey* for each 15 m of wall length in at least 1 wall required to face a *street* in Subsection 3.2.2.

### 3.2.2.12. Sprinklers in Lieu of Roof Rating

(1) The requirements in Articles 3.2.2.16. to 3.2.2.62. for roof assemblies to have a *fire-resistance rating* are permitted to be waived provided

- (a) the *building* is *sprinklered*
- (b) the sprinkler system in Clause (a) is electrically supervised in conformance with Sentence 3.2.4.16.(5), and
- (c) the operation of the sprinkler system in Clause (a) will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(3).

**3.2.2.13. Heavy Timber Roof Permitted.** For the purposes of Articles 3.2.2.16. to 3.2.2.62., roof assemblies in *buildings* up to 2 *storeys* in *building height* are permitted to be of *heavy timber construction* regardless of *building area* provided the *building* is *sprinklered* and the sprinkler system conforms to Clauses 3.2.2.12.(1) (b) and (c).

### 3.2.2.14. Reserved.

### 3.2.2.15. Buildings Containing Impeded Egress Zone

(1) A *building*, containing an *impeded egress zone* and not more than 1 *storey* in *building height*, conforming to the appropriate requirements of Articles 3.2.2.16. to 3.2.2.62., is not required to conform to the requirements for a Group B, Division 1 *major occupancy* provided

- (a) the *building* is *sprinklered*,
- (b) the *building* does not include
  - (i) a *contained use area*,
  - (ii) sleeping accommodation,



- (iii) a *high hazard industrial occupancy*, or
- (iv) a *mercantile occupancy*,
- (c) the *building area* is not more than 6 400 m<sup>2</sup> if the *building* includes a *medium hazard industrial occupancy*,
- (d) the *impeded egress zone* does not extend beyond the boundaries of the *fire compartment* in which it is located, and
- (e) the *occupant load* of the *impeded egress zone* is not more than 100.

### 3.2.2.16. Assembly Buildings, Division 1, 1 Storey

- (1) A *building* classified as Group A, Division 1 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 1 *storey* in *building height*,
  - (b) has no part of the auditorium floor more than 5 m above or below *grade*,
  - (c) has no *occupancy* above or below the auditorium other than one which serves it or is dependent on it, and
  - (d) is one in which the *occupant load* of the auditorium floor does not exceed 300 persons.
- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min,
  - (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
  - (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, and
  - (d) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*, except that such members and assemblies supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.17. Assembly Buildings, Division 1, 1 Storey

- (1) A *building* classified as Group A, Division 1 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 1 *storey* in *building height*,
  - (b) has less than 40 per cent of the area of the *building* as 2 *storeys* for the purpose of
    - (i) development of productions including preparation of scenery and costumes and rehearsal of performers,
    - (ii) organization of performers, scenery and sound equipment before and during a performance,
    - (iii) preparation by performers for a performance,
    - (iv) managerial functions of policy making and administration, or
    - (v) public facilities such as toilets and rest rooms,
  - (c) has no *occupancy* above or below the auditorium other than one which serves it or is dependent on it,
  - (d) is not more than 600 m<sup>2</sup> in *building area*, and
  - (e) is one in which the *occupant load* is not more than 600 persons.
- (2) The *building* shall be of *heavy timber* or *noncombustible construction* used either singly or in combination, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min, and
  - (b) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.18. Assembly Buildings, Division 1, Any Height, Any Area**

- (1) A *building* classified as Group A, Division 1 shall conform to Sentence (2) provided the *building*
- (a) is not limited in *building height*, and
  - (b) is not limited in *building area*.
- (2) The *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.19. Assembly Buildings, Division 2, 1 Storey**

- (1) A *building* classified as Group A, Division 2 shall conform to Sentences (2) and (3) provided the *building*
- (a) is not more than 1 *storey* in *building height*,
  - (b) if unsprinklered, has *building area* not more than
    - (i) 400 m<sup>2</sup> if facing 1 *street*,
    - (ii) 500 m<sup>2</sup> if facing 2 *streets*, or
    - (iii) 600 m<sup>2</sup> if facing 3 *streets*, and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).
- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination.
- (3) In *buildings* without *basements* the limiting areas are permitted to be doubled provided a *fire separation* with a *fire-resistance rating* of not less than 1 h is used to separate the *building* into *fire compartments*, each one of which does not exceed the area limits of Clause 1 (b) or 1 (c).

**3.2.2.20. Assembly Buildings, Division 2, 1 and 2 Storeys, Sprinklered**

- (1) A *building* classified as Group A, Division 2 shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*,
  - (b) is *sprinklered*, and
  - (c) has *building area* not more than
    - (i) 400 m<sup>2</sup> if facing 1 *street*,
    - (ii) 500 m<sup>2</sup> if facing 2 *streets*, or
    - (iii) 600 m<sup>2</sup> if facing 3 *streets*.
- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination.

**3.2.2.21. Assembly Buildings, Division 2, 1 and 2 Storeys**

- (1) A *building* classified as Group A, Division 2 shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*, and
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.A., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.A.**  
Forming Part of Sentence 3.2.2.21.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 600	2 000	2 400
2	800	1 000	1 200
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, except that in *buildings* not more than 1 storey in *building height*, the *fire-resistance rating* is permitted to be waived provided that the roof assembly is constructed as a *fire-retardant treated wood roof system* conforming to Article 3.1.14.1., and
  - (i) if *unsprinklered*, the *building area* is not more than
    - 800 m<sup>2</sup> if facing 1 street,
    - 1000 m<sup>2</sup> if facing 2 streets, or
    - 1200 m<sup>2</sup> if facing 3 streets, and
  - (ii) if *sprinklered*, the *building area* is not more than twice the area limits of Subclause (i), and
- (d) all *loadbearing walls*, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

### 3.2.2.22. Assembly Buildings, Division 2, up to 5 Storeys, Any Area

- (1) A *building* classified as Group A, Division 2 shall conform to Sentences (2) or (3) provided the *building*
  - (a) is not more than 5 storeys in *building height*, and
  - (b) is not limited in *building area*.
- (2) Except as provided in Sentence (3), the *building* shall be of *noncombustible construction*, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) except as provided in Sentences (3) and (4), roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) except as provided in Sentences (3) and (4), all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) A *building* classified as Group A, Division 2 *occupancy* that is not more than 1 storey in *building height*, and in which the *building area* is not more than 3 200 m<sup>2</sup> if *unsprinklered*, or 6 400 m<sup>2</sup> if *sprinklered*, is permitted to be constructed with a roof of *heavy timber construction* and have columns of *heavy timber construction*.

(4) Roof assemblies over gymnasiums and swimming pools need not have a *fire-resistance rating* where every part of the roof assembly is 6 m or more above the main floor or balcony and carries no loads other than normal roof loads, including access walks and ventilating, sound or similar equipment.

### 3.2.2.23. Assembly Buildings, Division 2, Any Height, Any Area

- (1) A *building* classified as Group A, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not limited in *building height*, and



(b) is not limited in *building area*.

(2) The *building* shall be of *noncombustible construction*, and

(a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,

(b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,

(c) except as provided in Sentence (3), roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and

(d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) Roof assemblies over gymnasiums and swimming pools need not have a *fire-resistance rating* where every part of the roof assembly is 6 m or more above the main floor or balcony and carries no loads other than normal roof loads, including access walks and ventilating, sound or similar equipment.

### 3.2.2.24. Assembly Buildings, Division 3, 1 Storey

(1) A *building* classified as Group A, Division 3 shall conform to Sentence (2) provided the *building*

(a) is not more than 1 *storey* in *building height*,

(b) if unsprinklered, has a *building area* not more than

(i) 1 000 m<sup>2</sup> if facing 1 *street*,

(ii) 1 250 m<sup>2</sup> if facing 2 *streets*, or

(iii) 1 500 m<sup>2</sup> if facing 3 *streets*, and

(c) if *sprinklered*, is not more than twice the area limits of Clause (b).

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination.

### 3.2.2.25. Assembly Buildings, Division 3, 1 Storey

(1) A *building* classified as Group A, Division 3 shall conform to Sentence (2) provided the *building*

(a) is not more than 1 *storey* in *building height*,

(b) if unsprinklered, has a *building area* not more than

(i) 2 400 m<sup>2</sup> if facing 1 *street*,

(ii) 3 000 m<sup>2</sup> if facing 2 *streets*, or

(iii) 3 600 m<sup>2</sup> if facing 3 *streets*, and

(c) if *sprinklered*, is not more than twice the area limits of Clause (b).

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

(a) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,

(b) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, except that the *fire-resistance rating* is permitted to be waived provided that the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1., and

(i) if unsprinklered, the *building area* is not more than  
1 200 m<sup>2</sup> if facing 1 *street*,  
1 500 m<sup>2</sup> if facing 2 *streets*, or  
1 800 m<sup>2</sup> if facing 3 *streets*, and

(ii) if *sprinklered*, the *building area* is not more than twice the area limits of Subclause (i), and

(c) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

**3.2.2.26. Assembly Buildings, Division 3, 1 and 2 Storeys**

- (1) A *building* classified as Group A, Division 3 shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*,
  - (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.B., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.B.**  
Forming Part of Sentence 3.2.2.26.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 000	5 000	6 000
2	2 000	2 500	3 000
Column 1	2	3	4

- (2) Except as provided in Clauses (c) and (d), the *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 45 min or be of *heavy timber construction*, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly, except that arches may be of *heavy timber construction*.

**3.2.2.27. Assembly Buildings, Division 3, Any Height, Any Area**

- (1) A *building* classified as Group A, Division 3 shall conform to Sentence (2) provided the *building*
- (a) is not limited in *building height*, and
  - (b) is not limited in *building area*.
- (2) The *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.28. Assembly Buildings, Division 4**

- (1) A *building* classified as Group A, Division 4 shall conform to Sentence (2).
- (2) The *building* shall be of *noncombustible construction*, except that
- (a) the roof assemblies are permitted to be of *heavy timber construction*, and
  - (b) the *building* is permitted to be of *combustible construction* provided
    - (i) the *occupant load* is less than 1 500 persons, and
    - (ii) the *building* has a *limiting distance* of not less than 6 m.

**3.2.2.29. Institutional Buildings, Division 1**

- (1) A *building* classified as Group B, Division 1 shall conform to Sentence (2).
- (2) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.30. Institutional Buildings, Division 2, 1 Storey

- (1) A *building* classified as Group B, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 1 *storey* in *building height*,
  - (b) if *unsprinklered*, has a *building area* not more than 250 m<sup>2</sup>, and
  - (c) if *sprinklered*, is not more than 500 m<sup>2</sup>.
- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination.

3.2.2.31. Institutional Buildings, Division 2, 1 and 2 Storeys

- (1) A *building* classified as Group B, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 2 *storeys* in *building height*, and
  - (b) has a *building area* not more than the value in Table 3.2.2.C.

Table 3.2.2.C.  
Forming Part of Sentence 3.2.2.31.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>	Sprinklered Maximum Area, m <sup>2</sup>
1	1 000	2 400
2	500	1 600
Column 1	2	3

- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min,
  - (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
  - (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, and
  - (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.32. Institutional Buildings, Division 2, up to 3 Storeys, Sprinklered

- (1) A *building* classified as Group B, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 3 *storeys* in *building height*,
  - (b) is *sprinklered*, and
  - (c) is not greater in *building area* than the value in Table 3.2.2.D.



**Table 3.2.2.D.**  
Forming Part of Sentence 3.2.2.32.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>
1	unlimited
2	12 000
3	8 000
Column 1	2

(2) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.33. Institutional Buildings, Division 2, Any Height, Any Area**

(1) A *building* classified as Group B, Division 2 shall conform to Sentence (2) provided the *building*

- (a) is not limited in *building height*, and
- (b) is not limited in *building area*.

(2) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.34. Residential Buildings, up to 3 Storeys**

(1) A *building* classified as Group C shall conform to Sentences (2), (3) and (4) provided the *building*

- (a) is not more than 3 *storeys* in *building height*,
- (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.E., and
- (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.E.**  
Forming Part of Sentence 3.2.2.34.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 800	2 250	2 700
2	900	1 125	1 350
3	600	750	900
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, and
- (c) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) When *buildings* contain *dwelling units* consisting of more than 1 *storey*, the provisions of Sentences (1) and (2) shall apply, except that subject to the provision of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within such *dwelling units*, shall have a *fire-resistance rating* of not less than 45 min and need not be constructed as *fire separations*.

(4) In a *building* where there is no *dwelling unit* above another, the *fire-resistance rating* for the floor assemblies within the *dwelling unit* is waived.

**3.2.2.35. Residential Buildings, up to 3 Storeys, Increased Area**

(1) A *building* classified as Group C shall conform to Sentences (2), (3) and (4) provided the *building*

- (a) is not more than 3 *storeys* in *building height*,
- (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.F., and
- (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.F.**  
Forming Part of Sentence 3.2.2.35.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 400	3 000	3 600
2	1 200	1 500	1 800
3	800	1 000	1 200
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* containing *dwelling units* consisting of more than 1 *storey*, the provisions of Sentences (1) and (2) shall apply, except that, subject to the provisions of Sentence 3.3.4.2.(2), floor assemblies that are entirely contained within these *dwelling units*, including a floor over a *basement*, shall have a *fire-resistance rating* of not less than 1 h but need not be constructed as *fire separations*.

(4) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived provided collapse of these floor assemblies would not lead to the collapse of a *fire separation* to an adjacent *dwelling unit*.

**3.2.2.36. Residential Buildings, 4 Storeys, Sprinklered**

(1) A *building* classified as Group C shall conform to Sentences (2), (3) and (4) provided the *building*

- (a) is not more than 4 *storeys* in *building height*,

- (b) is *sprinklered*, and
- (c) has a *building area* not more than the value in Table 3.2.2.G.

**Table 3.2.2.G.**  
Forming Part of Sentence 3.2.2.36.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
4	1 200	1 500	1 800
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* containing *dwelling units* consisting of more than 1 *storey*, the provisions of Sentences (1) and (2) shall apply, except that, subject to the provisions of Sentence 3.3.4.2.(2), floor assemblies that are entirely contained within these *dwelling units*, including a floor over a *basement*, shall have a *fire-resistance rating* of not less than 1 h but need not be constructed as *fire separations*.

(4) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived provided collapse of these floor assemblies would not lead to the collapse of a *fire separation* to an adjacent *dwelling unit*.

### 3.2.2.37. Residential Buildings, up to 6 Storeys

- (1) A *building* classified as Group C shall conform to Sentences (2) and (3) provided the *building*
  - (a) is not more than 6 *storeys* in *building height*,
  - (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.H.,
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.H.**  
Forming Part of Sentence 3.2.2.37.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	6 000	unlimited	unlimited
3	4 000	5 000	6 000
4	3 000	3 750	4 500
5	2 400	3 000	3 600
6	2 000	2 500	3 000
Column 1	2	3	4

- (2) The *building* shall be of *noncombustible construction*, and



- (a) floor assemblies shall be *fire separations* with a *fire-resistance* of not less than 1 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.
- (3) In a *building* containing *dwelling units* consisting of more than 1 *storey*, the provisions of Sentences (1) and (2) shall apply, except that subject to the provision of Sentence 3.3.4.2.(2), the floor assemblies, that are entirely contained within these *dwelling units*, including a floor over a *basement*, shall have a *fire-resistance rating* of not less than 1 h but need not be constructed as *fire separations*.

3.2.2.38. Residential Buildings, Any Height, Any Area

- (1) A *building* classified as Group C shall conform to Sentences (2) and (3) provided the *building*
- (a) is not limited in *building height*, and
  - (b) is not limited in *building area*.
- (2) The *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.
- (3) In a *building* containing *dwelling units* consisting of more than 1 *storey*, the provisions of Sentences (1) and (2) shall apply, except that subject to the provision of Sentence 3.3.4.2.(2), floor assemblies, that are entirely contained within these *dwelling units*, including a floor over a *basement*, shall have a *fire-resistance rating* of not less than 1 h but need not be constructed as *fire separations*.

3.2.2.39. Business and Personal Services Buildings, 1 and 2 Storeys

- (1) A *building* classified as Group D shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*,
  - (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.I., and
  - (c) if *sprinklered*, is not greater than twice the area limits of Clause (b).

Table 3.2.2.I.  
Forming Part of Sentence 3.2.2.39.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	800	1 000	1 200
Column 1	2	3	4

- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and
- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min, and
  - (b) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

**3.2.2.40. Business and Personal Services Buildings, up to 3 Storeys**

- (1) A *building* classified as Group D shall conform to Sentence (2) provided the *building*
- (a) is not more than 3 *storeys* in *building height*,
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.J., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.J.**  
Forming Part of Sentence 3.2.2.40.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 800	6 000	7 200
2	2 400	3 000	3 600
3	1 600	2 000	2 400
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible* construction used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible* construction, shall have a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible* construction, a *fire-resistance rating* of not less than 45 min,
- (c) roof assemblies shall have, if of *combustible* construction, a *fire-resistance rating* of not less than 45 min, except that in *buildings* not more than 1 *storey* in *building height*, the *fire-resistance rating* is permitted to be waived provided that the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1. and,
  - (i) if unsprinklered, the *building area* is not more than
    - 2 400 m<sup>2</sup> if facing 1 *street*,
    - 3 000 m<sup>2</sup> if facing 2 *streets*, or
    - 3 600 m<sup>2</sup> if facing 3 *streets*, and
  - (ii) if *sprinklered*, the *building area* is not more than twice the area limits of Subclause (i), and
- (d) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible* construction.

**3.2.2.41. Business and Personal Services Buildings, up to 6 Storeys**

- (1) A *building* classified as Group D shall conform to Sentence (2) provided the *building*
- (a) is not more than 6 *storeys* in *building height*,
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.K., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

Table 3.2.2.K.  
Forming Part of Sentence 3.2.2.41.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	7 200	unlimited	unlimited
3	4 800	6 000	7 200
4	3 600	4 500	5 400
5	2 800	3 600	4 320
6	2 400	3 000	3 600
Column 1	2	3	4

- (2) The building shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, except that in *buildings* of 1 storey in *building height* this requirement is waived, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.42. Business and Personal Services Buildings, Any Height, Any Area

- (1) A building classified as Group D shall conform to Sentence (2) provided the building
- (a) is not limited in *building height*, and
  - (b) is not limited in *building area*.
- (2) The building shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, except that in *buildings* of 1 storey in *building height* this requirement is waived, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.43. Mercantile Buildings, 1 and 2 Storeys

- (1) A building classified as Group E shall conform to Sentence (2) provided the building
- (a) is not more than 2 storeys in *building height*,
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.L., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).



**Table 3.2.2.L.**  
Forming Part of Sentence 3.2.2.43.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	600	750	900
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min, and
- (b) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.44. Mercantile Buildings, up to 3 Storeys

(1) A *building* classified as Group E shall conform to Sentence (2) provided the *building*

- (a) is not more than 3 storeys in *building height*, and
- (b) has a *building area* not more than the value in Table 3.2.2.M.

**Table 3.2.2.M.**  
Forming Part of Sentence 3.2.2.44.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 500	1 500	1 500
2	1 200	1 500	1 500
3	800	1 000	1 200
Sprinklered Maximum Area, m <sup>2</sup>			
1	4 800	6 000	7 200
2	2 400	3 000	3 600
3	1 600	2 000	2 400
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 45 min, except that in *buildings* not more than 1 storey in *building height*, the *fire-resistance rating* is permitted to be waived provided the roof assembly is of *noncombustible construction* or is constructed as a *fire-retardant treated wood roof* system conforming to Article 3.1.14.1., and
  - (i) if unsprinklered, the *building area* is not more than 1 500 m<sup>2</sup>, and

- (ii) if *sprinklered*, the *building area* is not more than  
2 400 m<sup>2</sup> if facing 1 *street*,  
3 000 m<sup>2</sup> if facing 2 *streets*, or  
3 600 m<sup>2</sup> if facing 3 *streets*, and
- (d) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*, except that such members and assemblies supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.45. Mercantile Buildings, up to 6 Storeys

- (1) A *building* classified as Group E shall conform to Sentence (2) provided the *building*
  - (a) if *unsprinklered*, is not more than 3 *storeys* in *building height* and has a *building area* not more than 1 500 m<sup>2</sup>, and
  - (b) if *sprinklered*, is not more than 6 *storeys* in *building height* and has a *building area* not more than the value in Table 3.2.2.N.

Table 3.2.2.N.  
Forming Part of Sentence 3.2.2.45.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	7 500	unlimited	unlimited
3	5 000	6 250	7 500
4	3 750	4 688	5 625
5	3 000	3 750	4 500
6	2 500	3 125	3 750
Column 1	2	3	4

- (2) The *building* shall be of *noncombustible construction*, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.46. Mercantile Buildings, Any Height, Any Area, Sprinklered

- (1) A *building* classified as Group E shall conform to Sentence (2) provided the *building*
  - (a) is not limited in *building height*,
  - (b) is *sprinklered*, and
  - (c) is not limited in *building area*.
- (2) The *building* shall be of *noncombustible construction*, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 3 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1.5 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1.5 h, and

- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.47. Industrial Buildings, Division 1, 1 and 2 Storeys

- (1) A *building* classified as Group F, Division 1 shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*,
  - (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.O., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.O.**  
Forming Part of Sentence 3.2.2.47.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	800	1 000	1 200
2	400	500	600
Column 1	2	3	4

- (2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min, and
- (b) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

### 3.2.2.48. Industrial Buildings, Division 1, up to 3 Storeys, Sprinklered

- (1) A *building* classified as Group F, Division 1 shall conform to Sentence (2) provided the *building*
- (a) is not more than 3 *storeys* in *building height*,
  - (b) is *sprinklered*, and
  - (c) has a *building area* not more than the value in Table 3.2.2.P.

**Table 3.2.2.P.**  
Forming Part of Sentence 3.2.2.48.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 400	3 000	3 600
2	1 200	1 500	1 800
3	800	1 000	1 200
Column 1	2	3	4

- (2) The *building* shall be of *heavy timber* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min, and
- (b) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.



**3.2.2.49. Industrial Buildings, Division 1, up to 4 Storeys**

(1) A *building* classified as Group F, Division 1 shall conform to Sentence (2) provided the *building*

- (a) is not more than 4 *storeys* in *building height*,
- (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.Q., and
- (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.Q.**  
Forming Part of Sentence 3.2.2.49.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 400	3 000	3 600
2	1 200	1 500	1 800
3	800	1 000	1 200
4	600	750	900
Column 1	2	3	4

(2) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.50. Industrial Buildings, Division 1, up to 4 Storeys, Sprinklered**

(1) A *building* classified as Group F, Division 1 shall conform to Sentence (2) provided the *building*

- (a) is not more than 4 *storeys* in *building height*,
- (b) is *sprinklered*, and
- (c) has a *building area* not more than the value in Table 3.2.2.R.

**Table 3.2.2.R.**  
Forming Part of Sentence 3.2.2.50.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	6 000	7 500	9 000
2	3 000	3 750	4 500
3	2 000	2 500	3 000
4	1 500	1 875	2 250
Column 1	2	3	4

(2) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 3 h,

- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1.5 h,
- (c) roof assemblies shall have a *fire-resistance rating* of not less than 1.5 h, and
- (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.51. Industrial Buildings, Division 2, 1 and 2 Storeys

- (1) A *building* classified as Group F, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 2 *storeys* in *building height*, and
  - (b) has a *building area* not more than the value in Table 3.2.2.S.

**Table 3.2.2.S.**  
Forming Part of Sentence 3.2.2.51.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	600	750	900
Sprinklered Maximum Area, m <sup>2</sup>			
1	3 000	3 750	4 500
2	1 200	1 500	1 800
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min, and
- (b) all *loadbearing walls*, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

### 3.2.2.52. Industrial Buildings, Division 2, up to 4 Storeys

- (1) A *building* classified as Group F, Division 2 shall conform to Sentence (2) provided the *building*
  - (a) is not more than 4 *storeys* in *building height*,
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.T., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.T.**  
Forming Part of Sentence 3.2.2.52.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	3 200	4 000	4 800
2	1 600	2 000	2 400
3	1 070	1 340	1 600
Column 1	2	3	4

Table 3.2.2.T.—(Cont'd)  
Forming Part of Sentence 3.2.2.52.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
4	800	1 000	1 200
Column 1	2	3	4

(2) The building shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, except that in *buildings* not more than 1 storey in building height, the *fire-resistance rating* is permitted to be waived provided that the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1., and
  - (i) if *unsprinklered*, the *building area* is not more than
    - 1 600 m<sup>2</sup> if facing 1 street,
    - 2 000 m<sup>2</sup> if facing 2 streets, or
    - 2 400 m<sup>2</sup> if facing 3 streets, and
  - (ii) if *sprinklered*, the *building area* is not more than twice the area limits of Subclause (i), and
- (d) all *loadbearing walls*, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*, except that such members and assemblies supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the supported assembly.

3.2.2.53. Industrial Buildings, Division 2, up to 4 Storeys

- (1) A building classified as Group F, Division 2 shall conform to Sentence (2) provided the building
  - (a) is not more than 4 storeys in building height,
  - (b) if *unsprinklered*, has a *building area* not more than the value in Table 3.2.2.U., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

Table 3.2.2.U.  
Forming Part of Sentence 3.2.2.53.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	6 000	7 500	9 000
2	3 000	3 750	4 500
3	2 000	2 500	3 000
4	1 500	1 875	2 250
Column 1	2	3	4

- (2) The building shall be of *noncombustible construction*, and
  - (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and



- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.54. Industrial Buildings, Division 2, up to 6 Storeys

- (1) A *building* classified as Group F, Division 2 shall conform to Sentence (2) provided the *building*
- (a) is not more than 6 *storeys* in *building height*,
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.V., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.V.**  
Forming Part of Sentence 3.2.2.54.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	9 000	11 250	13 500
2	4 500	5 625	6 750
3	3 000	3 750	4 500
4	2 250	2 812	3 375
5	1 800	2 250	2 700
6	1 500	1 875	2 250
Column 1	2	3	4

- (2) The *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 2 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.55. Industrial Buildings, Division 2, Any Height, Any Area, Sprinklered

- (1) A *building* classified as Group F, Division 2 shall conform to Sentence (2) provided the *building*
- (a) is not limited in *building height*,
  - (b) is *sprinklered*, and
  - (c) is not limited in *building area*.

- (2) The *building* shall be of *noncombustible construction*, and
- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 3 h,
  - (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1.5 h,
  - (c) roof assemblies shall have a *fire-resistance rating* of not less than 1.5 h, and
  - (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.56. Industrial Buildings, Division 3, 1 and 2 Storeys

- (1) A *building* classified as Group F, Division 3 shall conform to Sentence (2) provided the *building*
- (a) is not more than 2 *storeys* in *building height*, and

(b) has a *building area* not more than the value in Table 3.2.2.W.

**Table 3.2.2.W.**  
Forming Part of Sentence 3.2.2.56.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 600	2 000	2 400
2	800	1 000	1 200
Sprinklered Maximum Area, m <sup>2</sup>			
1	4 800	6 000	7 200
2	1 600	2 000	2 400
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min, and
- (b) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

**3.2.2.57. Industrial Buildings, Division 3, up to 4 Storeys**

(1) A *building* classified as Group F, Division 3 shall conform to Sentence (2) provided the *building*

- (a) is not more than 4 *storeys* in *building height*,
- (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.X., and
- (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.X.**  
Forming Part of Sentence 3.2.2.57.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 800	6 000	7 200
2	2 400	3 000	3 600
3	1 600	2 000	2 400
4	1 200	1 500	1 800
Column 1	2	3	4

(2) The *building* shall be of *combustible* or *noncombustible construction* used either singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* of not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min,
- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* of not less than 45 min, except that in *buildings* not more than 1 *storey* in *building height*, the *fire-resistance rating* is per-

mitted to be waived provided that the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1., and

- (i) if unsprinklered, the *building area* is not more than  
2 400 m<sup>2</sup> if facing 1 *street*,  
3 000 m<sup>2</sup> if facing 2 *streets*, or  
3 600 m<sup>2</sup> if facing 3 *streets*, and
- (ii) if *sprinklered*, the *building area* is not more than twice the area limits of Subclause (i), and
- (d) all *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* of not less than 45 min or shall be of *noncombustible construction*.

### 3.2.2.58. Industrial Buildings, Division 3, 1 Storey

- (1) A *building* classified as Group F, Division 3 shall conform to Sentence (2) provided the *building*
- (a) is not more than 1 *storey* in *building height*, and
  - (b) if unsprinklered, has a *building area* not more than the value in Table 3.2.2.Y., and
  - (c) if *sprinklered*, is not more than twice the area limits of Clause (b).

**Table 3.2.2.Y.**  
Forming Part of Sentence 3.2.2.58.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 <i>Street</i>	Facing 2 <i>Streets</i>	Facing 3 <i>Streets</i>
1	5 600	7 000	8 400
Column 1	2	3	4

- (2) The *building* shall be of *heavy timber* or *noncombustible construction* used either singly or in combination.

### 3.2.2.59. Industrial Buildings, Division 3, 1 Storey, Any Area, Low Fire Load Occupancy

- (1) A *building* classified as Group F, Division 3 shall conform to Sentence (2) provided the *building*
- (a) is not more than 1 *storey* in *building height*,
  - (b) is used solely for low *fire load occupancies* such as
    - (i) power generating plants, or
    - (ii) plants for the manufacture or storage of *noncombustible* materials such as asbestos, brick, cement, concrete or steel, and
  - (c) is not limited in *building area*.

- (2) The *building* shall be of *noncombustible construction*.

### 3.2.2.60. Industrial Buildings, Division 3, Storage Garages up to 22 m High

(1) A *building* used as a *storage garage* with all *storeys* constructed as *open-air storeys* and having no other *occupancy* above it may have its floor, wall, ceiling and roof assemblies constructed without a *fire-resistance rating* provided the *building* is

- (a) of *noncombustible construction*,
- (b) not more than 22 m in height, measured between *grade* and the ceiling level of the top *storey*,
- (c) not more than 10 000 m<sup>2</sup> in *building area*, and
- (d) designed so that every portion of each *floor area* is within 60 m of an exterior wall opening.

### 3.2.2.61. Industrial Buildings, Division 3, up to 6 Storeys

- (1) A *building* classified as Group F, Division 3 shall conform to Sentence (2) provided the *building*



- (a) is not more than 6 storeys in building height,
- (b) if unsprinklered, has a building area not more than the value in Table 3.2.2.Z., and
- (c) if sprinklered, is not more than twice the area limits of Clause (b).

Table 3.2.2.Z.  
Forming Part of Sentence 3.2.2.61.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	7 200	9 000	10 800
3	4 800	6 000	7 200
4	3 600	4 500	5 400
5	2 880	3 600	4 320
6	2 400	3 000	3 600
Column 1	2	3	4

- (2) The building shall be of noncombustible construction, and
- (a) floor assemblies shall be fire separations with a fire-resistance rating of not less than 1 h,
  - (b) mezzanines shall have a fire-resistance rating of not less than 1 h,
  - (c) roof assemblies shall have a fire-resistance rating of not less than 1 h, and
  - (d) all loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

3.2.2.62. Industrial Buildings, Division 3, Any Height, Any Area

- (1) A building classified as Group F, Division 3 shall conform to Sentence (2) provided the building
- (a) is not limited in building height, and
  - (b) is not limited in building area.
- (2) The building shall be of noncombustible construction, and
- (a) floor assemblies shall be fire separations with a fire-resistance rating of not less than 2 h, except that such floor assemblies are permitted to be reduced to fire separations with a fire-resistance rating of not less than 1 h in a storage garage with all storeys constructed as open-air storeys,
  - (b) mezzanines shall have a fire-resistance rating of not less than 1 h,
  - (c) roof assemblies shall have a fire-resistance rating of not less than 1 h, and
  - (d) all loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

3.2.3. Spatial Separation and Exposure Protection of Buildings

3.2.3.1. Limiting Distance and Area of Unprotected Openings

- (1) Except as provided in Articles 3.2.3.9. to 3.2.3.11, the area of unprotected openings shall not be more than that set forth in Tables 3.2.3.A. or 3.2.3.B. for the limiting distance applicable to the exposing building face under consideration.
- (2) The area of the unprotected openings in an exposing building face shall be the aggregate area of unprotected openings expressed as a percentage of the area of the exposing building face in Tables 3.2.3.A. and 3.2.3.B.

**Table 3.2.3.A.**  
Forming Part of Subsection 3.2.3.

Exposing Building Face		Area of Unprotected Opening for Groups A, B, C, D and F, Division 3 Occupancies, Per Cent																											
Max. Area, m <sup>2</sup>	Ratio (L:H or H:L) <sup>(1)</sup>	Limiting Distance, m																											
		0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	16	18	20	25	30	35	40	45	50		
10	Less than 3 : 1	0	8	10	18	29	46	91	100																				
	3 : 1 to 10 : 1	0	8	12	21	33	55	96	100																				
	Over 10 : 1	0	11	18	32	48	68	100																					
15	Less than 3 : 1	0	7	9	14	22	33	63	100																				
	3 : 1 to 10 : 1	0	8	10	17	25	37	67	100																				
	Over 10 : 1	0	10	15	26	39	53	87	100																				
20	Less than 3 : 1	0	7	9	12	18	26	49	81	100																			
	3 : 1 to 10 : 1	0	8	10	15	21	30	53	85	100																			
	Over 10 : 1	0	9	14	23	33	45	72	100																				
25	Less than 3 : 1	0	7	8	11	16	23	41	66	98	100																		
	3 : 1 to 10 : 1	0	8	9	13	19	26	45	70	100																			
	Over 10 : 1	0	9	13	21	30	39	62	90	100																			
30	Less than 3 : 1	0	7	8	11	15	20	35	56	83	100																		
	3 : 1 to 10 : 1	0	7	9	12	17	23	39	61	88	100																		
	Over 10 : 1	0	8	12	19	27	36	56	79	100																			
40	Less than 3 : 1	0	7	8	10	13	17	28	44	64	89	100																	
	3 : 1 to 10 : 1	0	7	8	11	15	20	32	48	69	93	100																	
	Over 10 : 1	0	8	11	17	24	31	47	66	88	100																		
50	Less than 3 : 1	0	7	8	9	12	15	24	37	53	72	96	100																
	3 : 1 to 10 : 1	0	7	8	10	14	18	28	41	57	77	100																	
	Over 10 : 1	0	8	10	15	21	28	41	57	76	97	100																	
60	Less than 3 : 1	0	7	8	9	11	14	21	32	45	62	81	100																
	3 : 1 to 10 : 1	0	7	8	10	13	16	25	36	49	66	85	100																
	Over 10 : 1	0	8	10	14	20	25	38	51	67	85	100																	
80	Less than 3 : 1	0	7	7	8	10	12	18	26	36	48	62	79	98	100														
	3 : 1 to 10 : 1	0	7	8	9	11	14	21	29	40	52	67	84	100															
	Over 10 : 1	0	8	9	13	17	22	32	44	56	70	86	100																
100	Less than 3 : 1	0	7	7	8	9	11	16	22	30	40	51	65	80	97	100													
	3 : 1 to 10 : 1	0	7	8	9	11	13	18	25	34	44	56	69	84	100														
	Over 10 : 1	0	7	9	12	16	20	29	39	49	61	74	89	100															
150	Less than 3 : 1	0	7	7	8	9	10	13	17	22	29	37	46	56	67	79	93	100											
	3 : 1 to 10 : 1	0	7	7	8	10	11	15	20	26	33	41	50	60	71	84	97	100											
	Over 10 : 1	0	7	8	11	13	17	24	31	39	48	57	68	79	91	100													
250	Less than 3 : 1	0	7	7	7	8	9	10	13	16	20	25	30	36	43	51	59	68	87	100									
	3 : 1 to 10 : 1	0	7	7	8	9	10	12	15	19	24	28	34	40	47	55	63	72	92	100									
	Over 10 : 1	0	7	8	9	11	14	19	24	30	36	43	50	57	65	73	82	92	100										
350	Less than 3 : 1	0	7	7	7	8	8	9	11	14	16	20	24	28	33	38	44	50	64	81	99	100							
	3 : 1 to 10 : 1	0	7	7	8	8	9	11	13	16	19	23	27	32	37	42	48	55	69	85	100								
	Over 10 : 1	0	7	8	9	10	12	16	21	25	30	36	41	47	53	59	66	73	88	100									
500	Less than 3 : 1	0	7	7	7	7	8	9	10	12	14	16	19	22	25	29	33	37	47	59	71	100							
	3 : 1 to 10 : 1	0	7	7	7	8	8	10	12	14	16	19	22	25	29	33	37	41	52	63	76	100							
	Over 10 : 1	0	7	7	8	9	11	14	18	22	25	30	34	38	43	48	53	58	70	82	96	100							
1 000	Less than 3 : 1	0	7	7	7	7	8	9	9	10	12	13	14	16	18	20	22	27	33	39	58	82	100						
	3 : 1 to 10 : 1	0	7	7	7	7	8	9	10	11	12	14	15	17	19	21	23	26	31	37	43	63	86	100					
	Over 10 : 1	0	7	7	8	8	9	11	13	16	19	21	24	27	30	33	36	39	46	53	60	82	100						
2 000	Less than 3 : 1	0	7	7	7	7	7	8	8	9	9	10	11	12	13	14	15	17	20	23	33	44	58	74	93	100			
	3 : 1 to 10 : 1	0	7	7	7	7	7	8	8	9	10	11	12	13	14	15	16	17	20	23	27	37	49	63	79	97	100		
	Over 10 : 1	0	7	7	7	8	8	9	11	12	14	16	18	19	21	23	25	27	32	36	40	53	66	82	99	100			

**Note to Table 3.2.3.A.**

- (1) L = Length of Exposing Building Face  
H = Height of Exposing Building Face  
(Apply whichever ratio is greater)

Table 3.2.3.B.  
Forming Part of Subsection 3.2.3.

Exposing Building Face		Area of Unprotected Opening for Groups E and F, Division 1 and 2 Occupancies, Per Cent																																		
Max. Area, m <sup>2</sup>	Ratio (L/H or H/L) <sup>(1)</sup>	Limiting Distance, m																																		
		0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	16	18	20	25	30	35	40	45	50	55	60	65	70					
10	Less than 3 : 1	0	4	5	9	15	23	46	77	100																										
	3 : 1 to 10 : 1	0	4	6	10	17	25	48	79	100																										
	Over 10 : 1	0	5	9	16	24	34	58	91	100																										
15	Less than 3 : 1	0	4	5	7	11	16	32	53	79	100																									
	3 : 1 to 10 : 1	0	4	5	8	13	18	34	55	82	100																									
	Over 10 : 1	0	5	8	13	19	26	43	66	93	100																									
20	Less than 3 : 1	0	4	4	6	9	13	25	40	61	85	100																								
	3 : 1 to 10 : 1	0	4	5	7	11	15	27	43	63	87	100																								
	Over 10 : 1	0	5	7	11	17	22	36	53	74	99	100																								
25	Less than 3 : 1	0	4	4	6	8	11	20	33	49	69	92	100																							
	3 : 1 to 10 : 1	0	4	5	7	9	13	22	35	51	71	94	100																							
	Over 10 : 1	0	4	6	10	15	20	31	45	62	82	100																								
30	Less than 3 : 1	0	4	4	5	7	10	18	28	42	58	77	100																							
	3 : 1 to 10 : 1	0	4	4	6	9	12	20	30	44	60	80	100																							
	Over 10 : 1	0	4	6	10	14	18	28	40	54	71	91	100																							
40	Less than 3 : 1	0	4	4	5	6	8	14	22	32	44	59	76	94	100																					
	3 : 1 to 10 : 1	0	4	4	6	8	10	16	24	34	47	61	78	97	100																					
	Over 10 : 1	0	4	5	8	12	15	23	33	44	57	72	89	100																						
50	Less than 3 : 1	0	4	4	5	6	7	12	18	26	36	48	61	76	93	100																				
	3 : 1 to 10 : 1	0	4	4	5	7	9	14	20	29	38	50	63	79	95	100																				
	Over 10 : 1	0	4	5	8	11	14	21	29	38	48	61	74	90	100																					
60	Less than 3 : 1	0	4	4	4	5	7	11	16	23	31	40	52	64	78	94	100																			
	3 : 1 to 10 : 1	0	4	4	5	6	8	12	18	25	33	43	54	66	81	96	100																			
	Over 10 : 1	0	4	5	7	10	13	19	26	34	43	53	64	77	92	100																				
80	Less than 3 : 1	0	4	4	4	5	6	9	13	18	24	31	40	49	60	71	84	98	100																	
	3 : 1 to 10 : 1	0	4	4	5	6	7	10	15	20	26	33	42	51	62	74	86	100																		
	Over 10 : 1	0	4	5	6	9	11	16	22	28	35	43	52	62	73	85	98	100																		
100	Less than 3 : 1	0	4	4	4	5	5	8	11	15	20	26	32	40	48	58	68	79	100																	
	3 : 1 to 10 : 1	0	4	4	4	5	6	9	13	17	22	28	35	42	51	60	70	81	100																	
	Over 10 : 1	0	4	4	6	8	10	14	19	25	31	37	44	52	61	71	81	92	100																	
150	Less than 3 : 1	0	4	4	4	4	5	6	8	11	14	18	23	28	33	40	46	54	70	89	100															
	3 : 1 to 10 : 1	0	4	4	4	5	6	8	10	13	16	20	25	30	36	42	49	56	73	92	100															
	Over 10 : 1	0	4	4	5	7	8	12	16	20	24	29	34	39	46	52	59	67	84	100																
250	Less than 3 : 1	0	4	4	4	4	4	5	7	8	10	12	15	18	22	25	29	34	41	55	68	100														
	3 : 1 to 10 : 1	0	4	4	4	4	5	6	8	10	12	14	17	20	24	27	32	36	46	57	70	100														
	Over 10 : 1	0	4	4	5	6	7	9	12	15	18	21	25	28	32	37	41	46	56	68	81	100														
350	Less than 3 : 1	0	4	4	4	4	4	5	6	7	8	10	12	14	16	19	22	25	32	40	49	77	100													
	3 : 1 to 10 : 1	0	4	4	4	4	5	7	8	10	12	14	16	18	21	24	27	34	43	52	79	100														
	Over 10 : 1	0	4	4	4	5	6	8	10	13	15	18	21	23	26	30	33	36	44	53	62	90	100													
500	Less than 3 : 1	0	4	4	4	4	4	4	5	6	7	8	9	11	13	14	16	19	24	29	36	55	78	100												
	3 : 1 to 10 : 1	0	4	4	4	4	4	5	6	7	8	9	11	13	14	16	18	21	26	31	38	57	80	100												
	Over 10 : 1	0	4	4	4	5	5	7	9	11	13	15	17	19	21	24	26	29	35	41	48	68	92	100												
1 000	Less than 3 : 1	0	4	4	4	4	4	4	4	5	5	6	6	7	8	9	10	11	14	16	20	29	41	55	71	89	100									
	3 : 1 to 10 : 1	0	4	4	4	4	4	4	5	5	6	7	8	9	10	11	12	13	15	18	22	31	43	57	73	91	100									
	Over 10 : 1	0	4	4	4	4	5	6	7	8	9	11	12	13	15	16	18	20	23	26	30	41	53	68	84	100										
2 000	Less than 3 : 1	0	4	4	4	4	4	4	4	4	4	5	5	6	6	7	7	9	10	12	16	22	29	37	46	56	68	80	94	100						
	3 : 1 to 10 : 1	0	4	4	4	4	4	4	4	4	5	5	6	6	7	7	8	9	10	12	13	18	24	31	39	49	59	70	83	96	100					
	Over 10 : 1	0	4	4	4	4	4	5	5	6	7	8	9	10	11	12	13	14	16	18	20	26	33	41	50	59	70	81	94	100						

**Note to Table 3.2.3.B.**  
(1) L = Length of Exposing Building Face  
H = Height of Exposing Building Face  
(Apply whichever ratio is greater)



(3) For the purposes of determining the type of construction and cladding and the *fire-resistance rating* of an exterior wall, the *exposing face* shall be taken as the projection of the exterior wall onto a vertical plane located so that no portion of the exterior wall of the *building* or of a *fire compartment*, if the *fire compartment* complies with the requirements of Sentence 3.2.3.2.(1), is between the vertical plane and the line to which the *limiting distance* is measured and, for these purposes, the area of *unprotected openings* shall be determined from Table 3.2.3.A. or Table 3.2.3.B.

(4) For the purposes of determining the actual percentage of *unprotected openings* permitted in an exterior wall, the location of the *exposing building face* is permitted to be taken at a vertical plane located so that there are no *unprotected openings* between the vertical plane and the line to which the *limiting distance* is measured.

(5) Where fire fighting facilities cannot reach the *building* within 10 min of the alarm being received, the *limiting distance* shall be doubled.

### 3.2.3.2. Area of Exposing Building Face

(1) The area of an *exposing building face* shall be calculated as the total area of exterior wall facing in one direction on any side of a *building* measured from the finished ground level to the uppermost ceiling, except that where a *building* is divided by *fire separations* into *fire compartments*, the area of *exposing building face* is permitted to be calculated for each *fire compartment* provided such *fire separations*

- (a) in Group A, B, C, D or Group F, Division 3 *occupancy* have a *fire-resistance rating* not less than that required for the floor assembly, but shall not be less than 45 min and need not be more than 1 h, and
- (b) in Group E or Group F, Division 1 or 2 *occupancy* have a *fire-resistance rating* not less than that required for the floor assembly, but not less than 45 min.

(2) For the purposes of Sentence (1), where a horizontal *fire separation* is penetrated by openings that are not provided with *closures*, and the openings are in conformance with Article 3.2.8.2., the *fire separation* may be considered as enclosing construction for the purposes of determining *fire compartments*.

(3) For the purposes of Sentence (1), where an *interconnected floor space* is in conformance with Articles 3.2.8.3. to 3.2.8.11., each *storey* in the *interconnected floor space* may be considered to be a *fire compartment*.

**3.2.3.3. Wall Enclosing Attic or Roof Space.** Where an exterior wall enclosing an *attic or roof space* is located above an *exposing building face*, the wall shall be constructed in conformance with the requirements for the *exposing building face*.

**3.2.3.4. Party Wall.** Every wall that is a *party wall* shall be constructed as a *firewall*.

**3.2.3.5. Wall with Limiting Distance Less Than 1.2 m.** Openings in every wall that has a *limiting distance* of less than 1.2 m shall be protected by *closures*, of other than wired glass or glass block, whose *fire-protection rating* is in accordance with Table 3.1.8.A. for the *fire-resistance rating* required for the wall.

**3.2.3.6. Combustible Projection Restrictions.** Except for *buildings* containing 1 or 2 *dwelling units* only, *combustible* projections on the exterior of a wall that are more than 1 m above ground level, such as balconies, platforms, canopies, eave projections and stairs, and that could expose an adjacent *building* to fire spread, shall not be permitted within 1.2 m of a property line or the centreline of a *public way*, or within 2.4 m of a *combustible* projection on another *building* on the same property.

### 3.2.3.7. Construction of Exposing Building Face

(1) Except as permitted in Articles 3.2.3.9. and 3.2.3.10., where a *limiting distance* shown in Table 3.2.3.A. for a Group A, B, C, D or Group F, Division 3 *occupancy* classification is such as to permit an *exposing building face* to have *unprotected openings* of

- (a) not more than 10 per cent of the *exposing building face*, the *exposing building face* shall be of *noncombustible construction* having a *fire-resistance rating* of not less than 1 h and be clad with *noncombustible* cladding,
- (b) more than 10 per cent but not more than 25 per cent of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* of not less than 1 h and be clad with *noncombustible* cladding, and
- (c) more than 25 per cent but less than 100 per cent of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* of not less than 45 min.

(2) Except as permitted in Article 3.2.3.9., where a *limiting distance* shown in Table 3.2.3.B. for a Group E, or Group F, Division 1 or 2 *occupancy* classification is such as to permit an *exposing building face* to have *unprotected openings* of

- (a) not more than 10 per cent of the *exposing building face*, the *exposing building face* shall be of *noncombustible construction* having a *fire-resistance rating* of not less than 2 h and be clad with *noncombustible cladding*,
  - (b) more than 10 per cent but not more than 25 per cent of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* of not less than 2 h, and be clad with *noncombustible cladding*, and
  - (c) more than 25 per cent but less than 100 per cent of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* of not less than 1 h.
- (3) In addition to the requirements of Sentences (1) and (2), foamed plastic insulation used in an exterior wall of a *building* more than 3 storeys in *building height* shall be protected on the exterior surface by
- (a) concrete or masonry not less than 25 mm thick,
  - (b) material that is permitted for use in *noncombustible construction* in Article 3.1.5.5., or
  - (c) *noncombustible* material that will remain in place for not less than 15 min when tested in conformance with CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

### 3.2.3.8. Protection of Structural Members

- (1) Structural members, such as beams, columns and arches placed wholly or partly outside an exterior face of a *building* and 3 m or more from the property line or centreline of a public thoroughfare need not be protected from exterior fires.
- (2) Structural members in Sentence (1) that are less than 3 m from the property line or centreline of a public thoroughfare shall be protected from exterior fire by fire protection having a *fire-resistance rating* not less than that required for their protection from inside fires in conformance with Articles 3.2.2.16. to 3.2.2.62., or by fire protection having a *fire-resistance rating* of not less than 1 h, whichever is the greater.
- (3) Structural members of *heavy timber construction* such as beams, columns and arches placed wholly or partly outside an exterior face of a *building* and 3 m or more from the property line or centreline of a public thoroughfare need not be covered with *noncombustible cladding*.

### 3.2.3.9. Unlimited Unprotected Openings

- (1) An *exposing building face* of an *open-air storey* in a *storage garage* is permitted to have unlimited *unprotected openings* provided it has a *limiting distance* of not less than 3 m.
- (2) The *exposing building face* of a *storey* that faces a *street* and is at the same level as the *street* is permitted to have unlimited *unprotected openings* if the *limiting distance* is not less than 9 m.

### 3.2.3.10. Low Fire Load, 1 Storey Building

- (1) For any *building* of Group F, Division 3 *occupancy*, any non-loadbearing wall comprising an *exposing building face* is permitted to be of *noncombustible construction* without a *fire-resistance rating* provided the *building*
- (a) is not more than 1 *storey* in *building height*,
  - (b) is used for low *fire load occupancies* such as described in Sentence 3.2.2.59.(1), and
  - (c) is located so that the *limiting distance* is not less than 3 m.

### 3.2.3.11. Increased Openings Permitted

- (1) The maximum area of *unprotected openings* in any *exposing building face* is permitted to be doubled where the *building* is *sprinklered*.
- (2) The maximum area of *unprotected openings* in any *exposing building face* is permitted to be doubled where such openings are glazed with glass block or with wired glass conforming to the requirements of Article 3.1.8.14.

**3.2.3.12. Equivalent Opening Factor.** Where the surface temperature on the unexposed surface of a wall assembly exceeds the limitation of a standard fire test as permitted in Article 3.1.7.2., an allowance shall be made for the radiation from the hot unexposed wall surface by adding an equivalent area of *unprotected opening* to the area of actual openings as follows:

$$A_c = A + (A_f \times F_{t.o})$$

where

$A_c$  = corrected area of *unprotected openings* including actual and equivalent openings,

$A$  = actual area of *unprotected openings*,

$A_f$  = area of exterior surface of the *exposing building face* exclusive of openings on which the temperature limitation of the standard test is exceeded, and

$F_{t.o}$  = an equivalent opening factor derived from the following expression:

$$F_{t.o} = \frac{(T_u + 273)^4}{(T_e + 273)^4}$$

where

$T_u$  = average temperature in degrees Celsius of the unexposed wall surface at the time the required *fire-resistance rating* is reached under test conditions, and

$T_e$  = 892°C for a *fire-resistance rating* of not less than 45 min, 927°C for a *fire-resistance rating* of not less than 1 h, and 1 010°C for a *fire-resistance rating* of not less than 2 h.

### 3.2.3.13. Protection of Exit Facilities

(1) Except as required in Sentence (3), where an *exit* enclosure has exterior walls that may be exposed to fire from openings in the exterior walls of the *building* it serves, the openings in either the exterior walls of the *exit* or the exterior walls of the *building* shall be protected with wired glass in fixed steel frames or glass block conforming to Article 3.1.8.14. where the openings in the exterior walls of the *building* are within 3 m horizontally and

- (a) less than 10 m below openings in the exterior walls of the *exit*, or
- (b) less than 2 m above openings in the exterior walls of the *exit*.

(2) Where an unenclosed exterior *exit* stair or ramp may be exposed to fire from openings in the exterior walls of the *building* it serves, the openings in the exterior walls of the *building* shall be protected with wired glass in fixed steel frames or glass block conforming to Article 3.1.8.14. where the openings in the exterior walls of the *building* are within 3 m horizontally and

- (a) less than 10 m below the *exit* stair or ramp, or
- (b) less than 5 m above the *exit* stair or ramp.

(3) Except as provided in Sentence 3.4.4.3.(1), where an exterior *exit* door in one *fire compartment* is within 3 m horizontally of openings in another *fire compartment*, and the exterior walls containing such openings intersect at an exterior angle of less than 135°, the openings shall be protected with wired glass in fixed steel frames or glass block conforming to Article 3.1.8.14.

### 3.2.3.14. Wall Exposed to Another Wall

(1) Except as provided in Sentence 3.3.2.3.13. (1) and 3.2.3.20.(4), where an opening in an exterior wall of a *fire compartment* is exposed to an opening in the exterior wall of another *fire compartment*, and the planes of the 2 walls are parallel or at an angle of less than 135°, measured from the exterior of the *building*, the openings in the 2 *fire compartments* shall be separated by a distance at least equal to  $D_o$  where

$$D_o = 2D - \left(\frac{\theta}{90} \times D\right), \text{ but in no case less than 1 m}$$

where

$D_o$  = the greater required *limiting distance* for the *exposing building faces* of the 2 *fire compartments*, and

$\theta$  = the angle made by the intersecting planes of the *exposing building faces* of the 2 *fire compartments*, (in the case where the exterior walls are parallel and face each other,  $\theta = 0^\circ$ ).

(2) The exterior wall of each *fire compartment* in Sentence (1) within the distance,  $D_o$ , shall have a



*fire-resistance rating* not less than that required for the interior vertical *fire separation* between the compartment and the remainder of the *building*.

**3.2.3.15. Wall Exposed to Adjoining Roof.** Except as permitted in Sentence 3.2.3.20.(4), where a wall in a *building* is exposed to a fire hazard from an adjoining roof of a separate unsprinklered *fire compartment* in the same *building*, and the exposed wall contains windows within 3 *storeys* vertically and 5 m horizontally of such roof, the roof shall contain no skylights within 5 m of the exposed wall.

### **3.2.3.16. Protection of Soffits**

(1) Where there is a common *attic or roof space* above more than 2 *suites* of *residential occupancy* or above more than 2 patients' sleeping rooms, and the common *attic or roof space* projects beyond the exterior wall of the *building*, the soffit and any opening in the soffit or other surface of the projection located within 2.5 m of a window or door opening shall be protected by

- (a) *noncombustible* material not less than 0.38 mm thick and having a melting point not below 650°C,
- (b) plywood not less than 11 mm thick,
- (c) strandboard or waferboard not less than 12.5 mm thick, or
- (d) lumber not less than 11 mm thick.

(2) The soffit protection required in Sentence (1) shall extend the full width of the opening and to not less than 1.2 m on either side of it, with no *unprotected opening* into the soffit within this limit.

(3) Where an eave overhang is completely separated from the remainder of the *attic or roof space* by fire stopping, the requirements in Sentence (1) do not apply.

(4) Where an *attic or roof space*, including its adjoining eave overhangs, is separated by construction conforming to Article 3.1.11.7. into compartments such that the resulting spaces are not common to more than 2 *suites* of *residential occupancy* or 2 patients' sleeping rooms, the requirements in Sentence (1) do not apply.

**3.2.3.17. Apron, Canopy or Spandrel Protection for Vertically Separated Openings.** Where any *storey* of a *building* classified as a Group E or Group F, Division 1 or 2 *major occupancy* is required to be separated from the *storey* above or below by a *fire separation*, every opening in an exterior wall located vertically above another opening shall be separated by apron or spandrel walls not less 1 m high or by a canopy not less than 1 m wide at each floor level and the apron, spandrel or canopy shall have a *fire-resistance rating* not less than that of the construction required for the floor assembly but need not be more than 1 h, except as required elsewhere in this Subsection.

### **3.2.3.18. Roof Coverings**

(1) Except as provided in Sentence (2), every *building* shall have a Class A, B or C roof covering as described in Subsection 3.1.15.

(2) Roof coverings are not required to have a Class A, B or C rating for

- (a) tents and *air-supported structures*, and
- (b) *buildings* of Group A, Division 2 *occupancy* not more than 2 *storeys* in *building height* and not more than 1 000 m<sup>2</sup> in *building area* provided the roof covering is underlaid with *noncombustible* material.

### **3.2.3.19. Covered Vehicular Passageway**

(1) A covered vehicular passageway shall

- (a) be of *noncombustible construction* when constructed below *grade*, and
- (b) be separated from every *building* or part of a *building* adjoining it by a *fire separation* having a *fire-resistance rating* of not less than 1.5 h where it is designed as a receiving or shipping area.

### **3.2.3.20. Walkway between Buildings**

(1) Except as provided in Sentence 3.2.3.21.(2), where *buildings* are connected by a *walkway*, each *building* shall be separated from the *walkway* by a *fire separation* with a *fire-resistance rating* of not less than 45 min.

(2) Except as provided in Sentence (3), a *walkway* connected to a *building* required to be of *noncombustible construction* shall also be of *noncombustible construction*.

(3) A *walkway* connected to a *building* required to be of *noncombustible construction* is permitted to be of *heavy timber construction* provided

- (a) not less than 50 per cent of the area of any enclosing perimeter walls is open to the outdoors, and
- (b) the *walkway* is at ground level.

(4) A *walkway of noncombustible construction* used only as a pedestrian thoroughfare and that is not required as an *exit*, need not conform to the requirements of Articles 3.2.3.14. and 3.2.3.15.

### 3.2.3.21. Underground Walkway

(1) An underground *walkway* shall not be designed for any purpose other than pedestrian travel unless such other purpose is permitted and any space in the *walkway* containing an *occupancy* is *sprinklered*.

(2) *Buildings* connected by an underground *walkway* shall be separated from the *walkway* by a *fire separation* with a *fire-resistance rating* of not less than 1 h.

(3) An underground *walkway* shall be of *noncombustible construction* suitable for underground location.

(4) Smoke barrier doors shall be installed in underground *walkways* at intervals of not more than 100 m, or the travel distance from the door of an adjacent room or space to the nearest *exit* shall not be more than one and a half times the least allowable travel distance for any of the adjacent *occupancies* as prescribed in Sentence 3.4.2.5.(1).

### 3.2.4. Fire Alarm and Detection Systems

#### 3.2.4.1. Determination of Requirement for a Fire Alarm System

(1) Except as provided in Sentences (2) to (4), a fire alarm system shall be installed when the *occupant load* in Table 3.2.4.A. for any *major occupancy* is exceeded, and in *buildings* containing

- (a) a *contained use area*,
- (b) an *impeded egress zone*,
- (c) an *interconnected floor space* required to conform to Articles 3.2.8.3. to 3.2.8.11.,
- (d) more than 3 *storeys*, including *storeys* below *grade*,
- (e) a total *occupant load* of more than 300, other than in open air seating areas,
- (f) an *occupant load* of more than 150 above or below the *first storey*, other than in open air seating areas, or
- (g) a child care facility, including a day care facility, with an *occupant load* of more than 40.

**Table 3.2.4.A.**  
Forming Part of Sentence 3.2.4.1.(1)

<i>Major Occupancy Classification</i>	<i>Occupant Load Above Which a Fire Alarm System is Required</i>
Group A, Division 2 (licensed restaurants and beverage establishments only)	150
Group A, Division 2 (schools and colleges only)	40
Group A, Division 4	300 below the seating area
Group B, Division 2	10 receiving care or treatment
Group C	10 having sleeping accommodation
Group F, Division 1	25
Group F, Division 2 and 3	75 above or below the <i>first storey</i>
Column 1	2

(2) A fire alarm system is not required in apartment *buildings* where not more than 4 *dwelling units* share a common *means of egress*, or in *buildings* 3 *storeys* or less in *building height* where each *dwelling unit* is served by an exterior *exit* facility leading to ground level.

(3) A fire alarm system is not required in *hotels 3 storeys or less in building height* where each *suite* is served by an exterior *exit* facility leading to ground level.

(4) Except as required in Sentence 3.2.4.2.(1), a fire alarm system is not required in a *storage garage* conforming to Article 3.2.2.60, provided there are no other *occupancies* in the *building*.

### 3.2.4.2. Continuity of Fire Alarm System

(1) Where there are openings through a *firewall*, other than those for piping, tubing, wiring and totally enclosed *noncombustible* raceways, the requirements in this Subsection shall apply to the *floor areas* on both sides of the *firewall* as if they were in the same *building*.

(2) Except as provided in Sentence (4), where a *building* contains more than 1 *major occupancy* and a fire alarm system is required, a single system shall serve all *occupancies*.

(3) Except as provided in Sentence (4), where a fire alarm system is required in any portion of a *building*, it shall be installed throughout the *building*.

(4) Except as provided in Sentence (5), in a *building* not more than 3 *storeys in building height*, where a vertical *fire separation* having a *fire-resistance rating* of not less than 1 h separates a portion of the *building* from the remainder of the *building* and there are no openings through the *fire separation*, other than those for piping, tubing, wiring and totally enclosed *noncombustible* raceways, the requirements in this Subsection are permitted to be applied to each portion so separated as if it were a separate *building*.

(5) The permission in Sentence (4) to consider separated portions of a *building* as separate *buildings* does not apply to *service rooms* and storage rooms.

### 3.2.4.3. Types of Fire Alarm Systems

(1) Fire alarm systems shall be

- (a) single stage systems in Group F, Division 1 *occupancies*,
- (b) 2 stage systems in Group B *occupancies* other than those described in Clause (c),
- (c) single or 2 stage systems in *buildings 3 storeys or less in building height* used for children's custodial homes, convalescent homes or orphanages, and
- (d) single or 2 stage systems in all other cases.

### 3.2.4.4. Description of Fire Alarm Systems

(1) A single stage fire alarm system shall, upon the operation of any manual pull station or *fire detector*, cause an *alarm signal* to sound on all audible signal appliances in the system.

(2) A 2 stage fire alarm system shall

- (a) cause an *alert signal* to sound upon the operation of any manual pull station or *fire detector*,
- (b) except for Group B, Division 2 *major occupancies*, automatically cause an *alarm signal* to sound if the *alert signal* is not acknowledged within 5 min of its initiation,
- (c) have each manual pull station equipped so that the use of a key or other similar device causes an *alarm signal* to sound and continue to sound upon the removal of the key or similar device from the manual pull station, and
- (d) in a *building* containing a *hotel*
  - (i) cause an *alarm signal* to sound in the initiating fire zone, and
  - (ii) cause an *alert signal* to sound throughout the *building* in accordance with the fire safety plan required for the *building* under the Ontario Fire Code made under the **Fire Marshals Act**.

(3) Fire alarm systems in Sentences (1) and (2) are permitted to be zone coded so that, upon the operation of any manual pull station or *fire detector*

- (a) a coded *alarm signal* is sounded for a single stage system or a coded *alert signal* is sounded for a 2 stage system indicating the zone of alarm initiation,
- (b) the coded *alert signal* or *alarm signal* is repeated in its entirety not less than 4 times, and
- (c) a continuous *alert signal* or *alarm signal* is sounded upon completion of the coded signals in Clause (b) and Sentence (4).



(4) When a second manual pull station or *fire detector* is operated in a system in Sentence (3), in a zone other than that for which the first *alert signal* or *alarm signal* was sounded, the coded *alert signal* or *alarm signal* for the first zone shall be completed before the coded *alert signal* or *alarm signal* for the second zone is repeated not less than 4 times.

### 3.2.4.5. Installation and Testing of Fire Alarm Systems

(1) Fire alarm and voice communication systems shall be installed in conformance with CAN/ULC-S524-M, "Standard for the Installation of Fire Alarm Systems".

(2) Fire alarm systems shall be tested to ensure satisfactory operation in conformance with CAN/ULC-S537-M, "Standard for the Verification of Fire Alarm System Installations".

### 3.2.4.6. Silencing of Alarm Signals

(1) Required fire alarm systems shall be designed so that when an *alarm signal* is activated, it cannot be silenced automatically for at least

- (a) 5 min for *buildings* not required to be equipped with an annunciator,
- (b) 3 min for hospitals only, and
- (c) 20 min for all other *buildings*.

(2) Except as permitted in Sentences 3.2.4.22.(2) and (3), a required fire alarm system shall not incorporate manual silencing switches other than those installed inside the fire alarm control unit.

### 3.2.4.7. Signals to Fire Department

(1) Where a fire alarm system is required to be installed, and a single stage system is provided, the system shall be designed to notify the fire department in conformance with Sentence (3) that an *alarm signal* has been initiated in

- (a) Group A *occupancies* having an *occupant load* of more than 300,
- (b) Group B *occupancies*,
- (c) Group F, Division 1 *occupancies*,
- (d) *buildings* regulated by the provisions of Subsection 3.2.6., or
- (e) *buildings* containing *interconnected floor space* required to conform to Articles 3.2.8.3. to 3.2.8.11.

(2) Where a fire alarm system is required to be installed and a 2 stage system is provided, the system shall be designed to notify the fire department in conformance with Sentence (3) that an *alert signal* has been initiated.

(3) Except as permitted in Sentence (4), signals to the fire department shall be by way of

- (a) the municipal fire alarm system,
- (b) an independent central station conforming to NFPA-71, "Installation, Maintenance, and Use of Central Station Signaling Systems," or
- (c) a proprietary control centre conforming to NFPA-72D, "Installation, Maintenance, and Use of Proprietary Protective Signaling Systems".

(4) When the facilities in Sentence (3) are not available in the municipality in which the *building* is to be built, an independent system is permitted to be used to transmit signals to the fire department.

(5) Where a required fire alarm system has been installed with no provisions to transmit a signal to the fire department as indicated in Sentences (2), (3) and (4), a legible, permanently-mounted notice shall be posted at each manual pull station requesting that the fire department be notified and including the telephone number of that department.

### 3.2.4.8. Annunciator and Zone Indication

(1) Except as permitted in Sentences (2) to (4), an annunciator shall be installed in a location that is readily accessible to fire fighters entering the *building* and be in close proximity to a *building* entrance that faces a *street* or an access route for fire department vehicles that complies with Sentence 3.2.5.6.(1), and the annunciator shall have separate zone indicators of the actuation of the alarm initiating devices in each

- (a) *floor area* so that the coverage for each zone is not more than 2 000 m<sup>2</sup>,

- (b) *fire compartment* required to be separated by vertical *fire separations* having a *fire-resistance rating* of not less than 2 h, other than *dwelling units* described in Subsection 3.3.4.,
- (c) shaft required to be equipped with *fire detectors*,
- (d) air handling system required to be equipped with *smoke detectors*,
- (e) *contained use area*,
- (f) *impeded egress zone*,
- (g) zone required in Sentence 3.3.3.6.(6), and
- (h) *fire compartment* required in Sentence 3.3.3.7.(2).

(2) An annunciator need not be provided for a fire alarm system when not more than 1 zone indicator is required in Sentence (1).

(3) When an annunciator is not installed as part of a required fire alarm system in conformance with Sentence (1), a visual and audible trouble signal device shall be provided inside the main entrance of the *building* to indicate the status of the system.

(4) The requirements in Sentence (1) are waived in a *building* that has an aggregate area for all *storeys* of not more than 2 000 m<sup>2</sup> and is not more than 3 *storeys* in *building height*.

(5) Where a sprinkler system is used in lieu of *heat detectors* in conformance with Article 3.2.4.16., the requirements for zone indication in Clauses (1) (a) and (b) are waived provided the actuation of the alarm initiating devices is indicated on the annunciator in conformance with the zone indication requirements for the sprinkler system.

(6) In a *building* containing a *hotel* in which a trouble signal sounding device has a silencing switch, a trouble light shall be installed in the main reception area or other continually-supervised location.

(7) In a nursing home, a remote audiovisual fire alarm trouble signal shall be located at the main nursing station.

**3.2.4.9. Electrical supervision.** Electrical supervision shall be provided for required fire alarm systems.

#### **3.2.4.10. Fire Detectors**

(1) *Fire detectors* required in this Article shall be connected to the fire alarm system.

(2) Except as provided in Article 3.2.4.16., where a fire alarm system is required, *fire detectors* shall be installed in

- (a) storage rooms not within *dwelling units*,
- (b) *service rooms* not within *dwelling units*,
- (c) janitors' rooms,
- (d) elevator and dumbwaiter shafts, and
- (e) rooms where hazardous products are to be used or stored.

#### **3.2.4.11. Heat Detectors**

(1) Except as provided in Article 3.2.4.16., where a fire alarm system is required, *heat detectors* shall be installed

- (a) in every room in portions of *buildings* classified as Group A, Division 1 or Group B *major occupancy* other than sleeping rooms,
- (b) except in a *hotel*, in every *suite*, and every room not located within a *suite*, in portions of *buildings* classified as Group C *major occupancy* and more than 3 *storeys* in *building height*, and
- (c) in a *hotel*, in every room in a *suite* and in every room not located within a *suite*, other than saunas, refrigerated areas and swimming pools.

#### **3.2.4.12. Smoke Detectors**

(1) Where a fire alarm system is required, *smoke detectors* shall be installed in

- (a) every sleeping room and corridor in portions of *buildings* classified as Group B *major occupancy*,

- (b) every room in a *contained use area* and corridors serving those rooms,
- (c) every corridor in portions of *buildings* classified as Group A, Division 1 *major occupancy*,
- (d) every *public corridor* in portions of *buildings* classified as Group C *major occupancy*, and
- (e) every *exit* stair shaft.

#### 3.2.4.13. Prevention of Smoke Circulation

(1) Where a fire alarm system is required, every recirculating air handling system shall be designed to prevent the circulation of smoke upon a signal from a duct-type *smoke detector* where the air handling system

- (a) serves more than 1 *storey*,
- (b) serves more than 1 *suite* in a *storey*,
- (c) serves more than 1 zone required in Sentence 3.3.3.6.(6), or
- (d) serves more than 1 *fire compartment* required in Sentence 3.3.3.7.(2).

**3.2.4.14. Vacuum Cleaning Systems.** Central vacuum cleaning systems in *buildings* required to be equipped with a fire alarm system shall be designed to shut down automatically upon actuation of the fire alarm system.

#### 3.2.4.15. Elevator Emergency Return

(1) Except as permitted in Sentence (3), in *buildings* having elevators that serve *storeys* above the *first storey* and that are equipped with an automatic emergency recall feature, *smoke detectors* shall be installed in the elevator lobbies on the recall level so that when actuated, the elevators will automatically return directly to an alternate floor level.

(2) *Smoke detectors* required in Sentence (1) shall be designed as part of the *building* fire alarm system.

(3) The alternate floor recall feature specified in Sentence (1) is not required if the *floor area* containing the recall level is *sprinklered*.

#### 3.2.4.16. Sprinklers in Lieu of Heat Detectors

(1) *Heat detectors* in Articles 3.2.4.10. and 3.2.4.11. need not be provided where an automatic sprinkler system conforming to Sentences (2) to (5) and Article 3.2.5.13. is installed throughout the *floor area*.

(2) If an annunciator is required by Article 3.2.4.8., automatic sprinkler systems referred to in Sentence (1) shall be equipped with waterflow detecting devices so that each device serves

- (a) not more than one *storey*, and
- (b) an area on each *storey* that is not more than system area limits as specified in NFPA 13, "Installation of Sprinkler Systems".

(3) Waterflow detecting devices required by Sentence (2) shall be connected to initiate an *alert signal* or an *alarm signal* on the fire alarm system.

(4) The actuation of each waterflow detecting device required by Sentence (2) shall be indicated separately on the fire alarm system annunciator.

(5) The sprinkler system referred to in Sentence (1) shall be electrically supervised to indicate a trouble signal on the *building* fire alarm system annunciator for each of the following:

- (a) movement of a control valve handle,
- (b) loss of excess water pressure required to prevent false alarms in a wet pipe system,
- (c) loss of air pressure in a dry pipe system,
- (d) loss of air pressure in a pressure tank,
- (e) a significant change in water level in any water storage container used for fire fighting purposes,
- (f) loss of electrical power to any automatically starting electrical fire pump, and
- (g) a temperature approaching the freezing point in any dry pipe valve enclosure or water storage container used for fire fighting purposes.



**3.2.4.17. Manual Pull Stations**

- (1) Except as permitted in Sentences (3) and (4), a manual pull station shall be installed on every *floor area* near every required *exit*.
- (2) In a *building* containing a *hotel*, a manual pull station shall also be installed in the main reception area.
- (3) In Group C apartment *buildings*, if a pull station is not installed on a *floor area* in accordance with Sentence (1),
- (a) a manual pull station shall be installed in every *dwelling unit* in the *floor area* near each egress door leading from the *dwelling unit*,
  - (b) *smoke detectors* shall be installed in the *floor area* in *public corridors* and stairwells, and
  - (c) *fire detectors* shall be installed in the *floor area* in all common public areas and in rooms not located within *dwelling units*.
- (4) In *floor areas* where the manual pull stations are located in *dwelling units*, a legible sign stating "Fire Alarm Pull Stations Located in Apartment Units" shall be posted near every *exit* in a *public corridor*.

**3.2.4.18. Alert and Alarm Signals**

- (1) *Alert signals* and *alarm signals* shall be readily distinguishable from each other and from other signals which may be sounded in the *building*.
- (2) In a 2 stage fire alarm system described in Sentence 3.2.4.4.(2), the same audible signal appliances are permitted to be used to sound the *alert signals* and the *alarm signals*.
- (3) If audible signal appliances with voice reproduction capabilities are intended for paging and similar voice message use, other than during a fire emergency, they shall be installed so that *alert signals* and *alarm signals* take priority over all other signals.
- (4) Audible signal appliances forming part of a fire alarm or voice communication system shall not be used for playing music or background noise.
- (5) In a *building* or portion thereof intended for use primarily by persons with hearing impairments, visual signal appliances shall be installed in addition to audible signal appliances.

**3.2.4.19. Audibility of Alarm Signals**

- (1) Audible signal appliances forming part of a required fire alarm system shall be installed in a *building* so that *alert signals*, *alarm signals* and voice messages can be heard intelligibly throughout the *floor area* in which they are installed.
- (2) If a fire alarm system is required, audible signal appliances shall be located in a *service space* referred to in Sentence 3.2.1.1.(7) and shall be connected to the fire alarm system.

**3.2.4.20. Visual Signals**

- (1) Visual signal appliances required in Sentence 3.2.4.18.(5) shall be installed in a *building* so that the signal from not less than one appliance is visible throughout the *floor area* or portion thereof in which they are installed.
- (2) In addition to the requirements for fire alarm and detection systems in this Subsection, visual signals from *smoke detectors* required in sleeping rooms of Group B *occupancy* shall be provided so that staff serving those rooms can easily identify the room or location of fire alarm initiation.

**3.2.4.21. Smoke Alarms**

- (1) *Smoke alarms* conforming to CAN/ULC-S531-M, "Standard for Smoke Alarms" shall be installed in each *dwelling unit* and, except for *institutional occupancies* required to have a fire alarm system, in each sleeping room not within a *dwelling unit*.
- (2) *Smoke alarms* within *dwelling units* shall be installed between each area containing sleeping rooms and the remainder of the *dwelling unit*, and where the sleeping rooms are served by hallways, the *smoke alarms* shall be installed in the hallways.
- (3) *Smoke alarms* shall be installed on or near the ceiling.
- (4) *Smoke alarms* shall be installed with permanent connections to an electrical circuit and shall have no disconnect switches between the overcurrent device and the *smoke alarm*.

(5) Where more than one *smoke alarm* is required in a *dwelling unit*, they shall be wired so that the actuation of one alarm will cause all alarms within the *dwelling unit* to sound.

### 3.2.4.22. Voice Communication System

(1) A voice communication system required in Subsection 3.2.6. shall consist of

- (a) a 2-way communication system in each *floor area*, with connections to the central alarm and control facility and to the mechanical control centre, and
- (b) loudspeakers operated from the central alarm and control facility which are designed and located so as to be heard in all parts of the *building*, except that this requirement does not apply to elevator cars.

(2) The voice communication system referred to in Sentence (1) shall include provision for silencing the *alarm signal* in a single stage fire alarm system when voice messages are being transmitted, but only after the *alarm signal* has sounded initially for not less than

- (a) 30 s in Group B, Division 2 *major occupancies*, and
- (b) 1 min in all other *occupancies*.

(3) The voice communication system referred to in Sentence (1) shall include provision for silencing the *alert signal* and the *alarm signal* in a 2 stage fire alarm system when voice messages are being transmitted, but only after the *alert signal* has sounded initially for not less than

- (a) 30 s in Group B, Division 2 *major occupancies*, and
- (b) 1 min in all other *occupancies*.

(4) The voice communication system referred to in Clause (1) (b) shall be designed so that voice instructions can be transmitted selectively to any zone or zones while maintaining an *alert signal* or *alarm signal* to the other zones in the *building*.

(5) The 2-way communication system referred to in Clause (1) (a) shall be installed so that emergency telephones are located in each *floor area* near *exit* stair shafts.

### 3.2.5. Provisions for Fire Fighting

#### 3.2.5.1. Access to Above Grade Storeys

(1) Except for *storeys* below the *first storey*, direct access for fire fighting shall be provided from the outdoors to every *storey* having its floor level less than 25 m above *grade* by not less than one unobstructed window or access panel for each 15 m of wall in each wall required to face a *street* in Subsection 3.2.2.

(2) An opening for access required in Sentence (1) shall be not less than 1 100 mm high by 550 mm wide, with a sill height of not more than 900 mm above the inside floor.

(3) Access panels above the *first storey* shall be readily openable from both inside and outside, or the opening shall be glazed with plain glass.

#### 3.2.5.2. Access to Basements

(1) Direct access from not less than one *street* shall be provided from the outdoors to each *basement* having a horizontal dimension more than 25 m.

(2) The access required by Sentence (1) is permitted to be provided by doors, windows or other means that provide an opening at least 1 100 mm high and 550 mm wide, the sill of which shall be not higher than 900 mm above the inside floor, or by an interior stairway immediately accessible from the outdoors.

3.2.5.3. **Waiver for Access to Sprinklered Storeys.** The requirements of Articles 3.2.5.1. and 3.2.5.2. need not apply to any *storey*, including *basements*, that is *sprinklered*.

#### 3.2.5.4. Roof Access

(1) On *buildings* more than 3 *storeys* in *building height* where the slope of the roof is less than 1 in 4, all main roof areas shall be provided with direct access from the *floor areas* immediately below, either by a stairway or by a hatch not less than 550 mm by 900 mm with a suitable fixed ladder.

(2) Clearance and access around roof signs or other obstructions shall provide

- (a) a passage not less than 900 mm wide by 1 800 mm high, clear of all obstructions except for necessary horizontal supports not more than 600 mm above the roof surface

- (i) around every roof sign, and
- (ii) through every roof sign at locations not more than 15 m apart, and
- (b) a clearance of not less than 1.2 m between any portion of a roof sign and any opening in the exterior wall face or roof of the *building* in which it is erected.

**3.2.5.5. Access Routes**

(1) Every *building* which is more than 3 storeys in *building height* or more than 600 m<sup>2</sup> in *building area* shall be provided with access routes for fire department vehicles

- (a) to the principal entrance, and
- (b) to each *building* face having access openings for fire fighting as required in Articles 3.2.5.1. and 3.2.5.2.

**3.2.5.6. Location of Access Routes**

(1) Access routes required by Article 3.2.5.5. shall be located so that the principal entrance and every access opening required by Articles 3.2.5.1. and 3.2.5.2. are located not less than 3 m and not more than 15 m from the closest portion of the access route required for fire department use, measured horizontally from the face of the *building*.

(2) Access routes shall be provided to every *building* so that

- (a) for *buildings* provided with a fire department connection, a fire department pumper vehicle can be located adjacent to the hydrants described in Article 3.2.5.16.,
- (b) for *buildings* not provided with a fire department connection, a fire department pumper vehicle can be located so that the length of the access route from a hydrant to the vehicle plus the unobstructed path of travel for the fire fighter from the vehicle to the *building* is not more than 90 m, and
- (c) the unobstructed path of travel for the fire fighter from the vehicle to the *building* is not more than 45 m.

(3) The unobstructed paths of travel for the fire fighter required by Sentence (2) from the vehicle to the *building* shall be measured from the vehicle to the fire department connection provided for the *building*, except that where no such connection is provided, the paths of travel shall be measured to the principal entrance of the *building*.

(4) Where a portion of a *building* is completely cut off from the remainder of the *building* so that there is no access to the remainder of the *building*, the access routes required by Sentence (2) shall be located so that the unobstructed path of travel from the vehicle to one entrance of each such portion is not more than 45 m.

**3.2.5.7. Access Route Design**

(1) A portion of a roadway or yard provided as a required access route for fire department use shall

- (a) have a clear width of not less than 6 m, unless it can be shown that lesser widths are satisfactory,
- (b) have a centreline radius of not less than 12 m,
- (c) have an overhead clearance of not less than 5 m,
- (d) have a change of gradient of not more than 1 in 12.5 over a minimum distance of 15 m,
- (e) be designed to support the expected loads imposed by fire fighting equipment and be surfaced with concrete, asphalt or other material designed to permit accessibility under all climatic conditions,
- (f) have turnaround facilities for any dead end portion of the access route more than 90 m, and
- (g) be connected with a public thoroughfare.

**3.2.5.8. Water Supply**

(1) An adequate water supply for fire fighting shall be provided for every *building*.

(2) Hydrants shall be located within 90 m horizontally of any portion of a *building* perimeter which is required to face a *street* in Subsection 3.2.2.

**3.2.5.9. Reserved.****3.2.5.10. Reserved.**



3.2.5.11. Reserved.

3.2.5.12. Reserved.

**3.2.5.13. Automatic Sprinkler Systems**

(1) Except as provided in Sentences (2) and (3), where a sprinkler system is required, it shall be designed, constructed, installed and tested in conformance with NFPA 13, "Installation of Sprinkler Systems".

(2) Where a *building* contains fewer than 9 sprinklers, the water supply for such sprinklers is permitted to be supplied from the domestic water system for the *building* provided the required flow and pressure for the sprinklers can be met by the domestic system.

(3) Where a water supply serves both a sprinkler system and a system serving other equipment, control valves shall be provided so that either system can be shut off independently.

(4) Open grid and translucent ceilings located below sprinkler systems shall be installed in conformance with NFPA 13, "Installation of Sprinkler Systems", paragraphs 4-4.14 and 4-4.15.

(5) Where a sprinkler system has one or more electrically supervised control valves in order to meet the requirements of this Article, each valve shall be equipped with an electrically supervised switch for transmitting a signal for individual annunciation in the event of movement of the valve handle and the same annunciator panel may be utilized for supervision of valves in both the sprinkler and the standpipe systems.

**3.2.5.14. Combustible Sprinkler Piping**

(1) *Combustible* sprinkler piping shall be used only for wet systems in *residential occupancies* and other light hazard occupancies.

(2) *Combustible* sprinkler piping shall meet the requirements of ULC C199P-M, "Guide for the Investigation of Combustible Piping for Sprinkler Systems".

(3) Except as permitted in Sentence (4), *combustible* sprinkler piping shall be separated from the area served by the sprinkler system and from any other *fire compartment* by ceilings, walls, or soffits consisting of, as a minimum, lath and plaster, gypsum board not less than 9.5 mm thick, plywood not less than 13 mm thick, or a suspended membrane ceiling with lay-in panels or tiles and steel suspension grids, with the lay-in panels or tiles having a mass of not less than 1.7 kg/m<sup>2</sup>.

(4) Where *combustible* sprinkler piping is located above a ceiling, openings in the ceiling that are unprotected through the ceiling shall

(a) have an individual area not more than 0.71 m<sup>2</sup>,

(b) have no dimension greater than 1 200 mm, and

(c) be located so that the distance between the edge of the opening and the nearest sprinkler head is not more than 300 mm.

**3.2.5.15. Sprinklered Service Space**

(1) An automatic sprinkler system shall be installed in a *service space* referred to in Sentence 3.2.1.1.(7) if flooring for access within the *service space* is other catwalks.

(2) The sprinkler system required by Sentence (1) shall be equipped with waterflow detecting devices with each device serving not more than one *storey*.

(3) The waterflow detecting devices required by Sentence (2) shall be connected to the fire alarm system, if required, to

(a) initiate an *alert signal* or an *alarm signal*, and

(b) indicate separately on the fire alarm system annunciator the actuation of each device.

(4) If a *building* is required to be *sprinklered*, sprinkler protection need not be provided in computer room floors

(a) if the electrical communication wiring and cable sheathes do not convey flame or continue to burn for more than 1 min when tested in conformance with the Vertical Flame Test in Clause 4.11.1. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT1 Rating), or they comply with the test requirements in Clause 3.1.5.17.(1) (a), (FT4 Rating) or in Subclause 3.5.4.3.(1) (a) (ii), (FT6 Rating), and

- (b) in *noncombustible buildings*, if the *combustible* components are limited to those permitted in Subsection 3.1.5.

(5) Where a room, chute or bin is required to be *sprinklered* as indicated in Sentence 3.3.4.3.(1), Article 3.5.2.7. and Sentence 3.5.3.3.(6), the sprinklers may be supplied with water from the fire standpipe system provided that

- (a) except for a chute, not more than 8 sprinkler heads are required to protect any room or bin based on a maximum coverage of 12 m<sup>2</sup> per sprinkler head,
- (b) the standpipe riser is
  - (i) not less than 6 in. in diameter, or
  - (ii) hydraulically designed to meet combined water supply as specified in Clause (c),
- (c) the water supply for a standpipe system, pumping capability and water storage facility, if required, is increased to supply 95 L/min for each sprinkler head over and above the requirements for the standpipe system up to maximum 760 L/min for sprinklers,
- (d) a waterflow detecting device shall be installed in the sprinkler main adjacent to the point of connection to the standpipe riser, and
- (e) the activation of each waterflow detecting device in Clause (d) shall be indicated separately on the fire alarm system annunciator.

### 3.2.5.16. Fire Department Connections

(1) Fire department connections for standpipe and hose systems shall conform to the requirements in Article 3.2.9.5.

(2) Fire department connections for sprinkler systems shall conform to the requirements for fire department connections for standpipe systems contained in Article 3.2.9.5., except that Sentence 3.2.9.5.(8), the sign shall display the word **SPRINKLER**.

### 3.2.5.17. Portable Fire Extinguishers

(1) Portable extinguishers shall be provided and installed in conformance with the provisions of the Ontario Fire Code made under the Fire Marshals Act.

(2) In a Group B, Division 1 *major occupancy*, portable fire extinguishers are permitted to be located in secure areas, or in lockable cabinets provided that

- (a) identical keys for all cabinets are located at all guard stations, or
- (b) electrical remote release devices are provided and are connected to an emergency power supply.

**3.2.5.18. Protection from Freezing.** Equipment forming part of a fire protection system that may be adversely affected by freezing temperatures and that is located in an unheated area shall be adequately protected from freezing.

### 3.2.6. Additional Requirements for High Buildings

#### 3.2.6.1. Application

(1) This Subsection applies to

- (a) every *building* of Group A, D, E or F *major occupancy* classification that is more than
  - (i) 36 m high, measured between *grade* and the floor level of the top *storey*, or
  - (ii) 18 m high, measured between *grade* and the floor level of the top *storey*, and in which the cumulative or total *occupant load* on or above any *storey* above *grade*, other than the *first storey*, divided by 1.8 times the width in metres of all *exit* stairs at that *storey*, exceeds 300 persons,
- (b) every *building* containing a Group B *major occupancy* in which the floor level of the highest *storey* of that *major occupancy* is more than 18 m above *grade* or every *building* containing a *floor area* or part of a *floor area* located above the third *storey* designed or intended as a Group B, Division 2 *occupancy*, and
- (c) every *building* containing a Group C *major occupancy* whose floor level is more than 18 m above *grade*.

### 3.2.6.2. Limits to Smoke Movement

(1) Except as permitted in Sentence 3.2.6.6.(2), every *building* shall be designed to limit the danger to occupants and fire fighters from exposure to smoke in a *building* fire, as provided in Sentences (2) to (4) and Articles 3.2.6.3. to 3.2.6.7.

(2) Except as provided in Articles 3.2.6.4. to 3.2.6.6., every *building* shall be designed so that during a period of 2 h after the start of a fire all *floor areas* that are above the lowest *exit storey* will not contain more than 1 per cent by volume of contaminated air from the fire floor, assuming an outdoor temperature equal to the January design temperature on a 2.5 per cent basis determined in conformance with Subsection 2.5.1.

(3) Except as provided in Articles 3.2.6.4 and 3.2.6.6., every *building* shall be designed so that during a fire the limit described in Sentence (2) on the movement of contaminated air into other *floor areas* is not exceeded in

- (a) each *exit* stair serving *storeys* above the lowest *exit level*, and
- (b) each *exit* stair serving *storeys* below the lowest *exit level*.

(4) Except as provided in Articles 3.2.6.4. and 3.2.6.6., every *building* shall be designed so that during a fire the limit described in Sentence (2) on the movement of contaminated air into other *floor areas* is not exceeded in a shaft that contains an elevator for use by fire fighters, as required by Article 3.2.6.9.

### 3.2.6.3. Areas of Refuge

(1) Except in *buildings* of Group B *major occupancy* classification, the requirements of Sentence 3.2.6.2.(2) are waived in *buildings* where occupants above the *first storey* can enter and be safely accommodated in *floor areas* or parts of *floor areas* that

- (a) are designated as areas of refuge on the plans and are identified as such in the *building*,
- (b) are located on every fifth *storey*, except that in *buildings* of Group C *major occupancy* classification that are more than 75 m high, measured between *grade* and the floor level of the top *storey*, are located on every *storey*,
- (c) provide not less than 0.5 m<sup>2</sup> of floor space per ambulatory occupant and 1.5 m<sup>2</sup> of floor space per non-ambulatory occupant,
- (d) have access corridors and doors leading to each designated part of a *floor area* on the same *storey* sufficient to provide 3.67 mm of width for every person who may have to use these passages to reach the designated part of a *floor area*,
- (e) have access stairs from intervening *storeys* leading to each designated part of a *floor area* sufficient to provide 5.5 mm of width for every person who may have to use these stairs to reach the designated part of a *floor area*, and
- (f) during a period of 2 h after the start of a fire do not contain more than 1 per cent by volume of contaminated air from the fire floor, assuming an outdoor temperature equal to the January design temperature on a 2.5 per cent basis determined in conformance with Subsection 2.5.1.

### 3.2.6.4. Sprinklered Buildings

(1) The requirements of Sentences 3.2.6.2.(2) and (4), and Clause 3.2.6.2.(3) (a) are waived when a *building* is *sprinklered*, and

- (a) the sprinkler system is equipped with a water flow and supervisory signal system that will
  - (i) transmit automatically a waterflow signal directly to the fire department, or through an independent central station,
  - (ii) transmit automatically other supervisory signals to a proprietary control centre or to an independent central station, and
  - (iii) actuate a signal at the central alarm and control facility described in Article 3.2.6.12.,
- (b) each stairway that serves *storeys* above the lowest *exit level* is vented to the outdoors at or near the bottom of the stair shaft,
- (c) measures are taken to limit movement of smoke from a fire in a *floor area* below the lowest *exit storey* into upper *storeys*, and
- (d) except for exhaust fans in kitchens, washrooms and bathrooms in *dwelling units*, and except for fans



used for smoke venting in Article 3.2.6.10., air moving fans are designed and installed so that in the event of a fire such fans can be stopped by means of a manually operated switch at the central alarm and control facility where the system serves more than 2 *storeys*.

#### 3.2.6.5. Exception for Lower Buildings

(1) The requirements of Sentence 3.2.6.2.(2) are waived in a *building* of Group A, C, D, E or F *major occupancy* classification where

- (a) the *building* is not more than 75 m high measured between *grade* and the floor level of the top *storey*, and
- (b) the number of occupants of *storeys* above *grade* is not more than 3.6 times the area in square metres of treads and landings in the *exit* stairs serving these *storeys*.

#### 3.2.6.6. Residential Buildings

(1) The requirements of Sentences 3.2.6.2.(2) and (4) and Clause 3.2.6.2.(3) (a) are waived in a *building* of Group C *major occupancy* classification

- (a) where each *suite* above *grade* has direct access to an exterior balcony that
  - (i) is not less than 1.5 m deep from the outside face of the exterior wall to the inside edge of the balcony, and
  - (ii) provides not less than 0.5 m<sup>2</sup> of balcony space for each occupant of the *suite*,
- (b) where each stairway that serves *storeys* above the lowest *exit level* is vented to the outdoors at or near the bottom of the stair shaft,
- (c) where measures are taken to limit movement of smoke from a fire in a *floor area* below the lowest *exit storey* into upper *storeys*, and
- (d) where, except for exhaust fans in kitchens, washrooms and bathrooms in *dwelling units*, air moving fans are designed and installed so that in the event of a fire such fans can be stopped by means of a manually operated switch at the central alarm and control facility where the system serves more than 2 *storeys*.

(2) The requirements of Sentences 3.2.6.2.(2) and (3) are waived in a Group C *major occupancy* apartment *building*.

**3.2.6.7. Connected Buildings.** Where a *building* described in Sentence 3.2.6.1.(1) is connected to any other *building*, measures shall be taken to limit movement of contaminated air from one *building* into another during a fire.

#### 3.2.6.8. Emergency Operation of Elevators

(1) Manual emergency recall operation shall be provided for all elevators serving *storeys* above the *first storey*.

(2) Key-operated switches for emergency recall described in Sentence (1) shall be provided in a conspicuous location at each elevator lobby on the recall level and at the central alarm and control facility required in Article 3.2.6.12.

(3) In-car emergency service switches shall be provided in all elevator cars.

(4) Keys to operate the switches required by Sentences (2) and (3) shall be provided in a suitably identified box conspicuously located on the outside of an elevator shaft near the central alarm and control facility required by Article 3.2.6.12., and an additional key, or keys, shall be kept at the central alarm and control facility.

(5) Automatic emergency recall operation shall be provided for all elevators serving *storeys* above the *first storey* in unsprinklered *buildings*.

(6) The automatic emergency recall feature in Sentence (5) shall be actuated by

- (a) *smoke detectors* installed in each elevator lobby on each *storey*, or
- (b) the *building* fire alarm system.

(7) *Smoke detectors* in Sentence (6) shall be designed as part of the *building* fire alarm system.

**3.2.6.9. Elevator for Use by Fire Fighters**

(1) Not less than one elevator shall be provided for use by fire fighters in conformance with Sentences (2) to (6).

(2) The elevator required in Sentence (1) shall have a usable platform area not less than 2.2 m<sup>2</sup> and shall be capable of carrying a load of 900 kg from a *street* floor landing to the top floor that it serves in 1 min, except that in every *building* which is a Group C *major occupancy* apartment *building*, the elevator shall be able to accommodate a stretcher in the horizontal position.

(3) Except when Measure K of Chapter 3, "Measures for Fire Safety in High Buildings" of the Supplement to the NBC 1990 is used, each elevator for use by fire fighters shall

- (a) be provided with a *closure* at each shaft opening so that the interlock mechanism and associated wiring is operational for a period of at least 1 h when the assembly is subjected to the standard fire exposure described in CAN4-S104-M, "Standard Method for Fire Tests of Door Assemblies",
- (b) be protected with a vestibule containing no *occupancy*, and separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* of not less than 45 min, or
- (c) be protected with a corridor containing no *occupancy* and separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

(4) Except as provided in Sentence (5), an elevator required in Sentence (1) shall be capable of providing transportation from the *street* floor to every floor normally served by the elevator system that is above *grade* in the *building*.

(5) Where it is necessary to change elevators to reach any floor referred to in Sentence (4), the system shall be designed so that not more than one change of elevator is required when travelling from a *street* floor to any floor in the *building*.

(6) Electrical conductors for the operation of the elevator referred to in Sentence (1) shall be

- (a) installed in *service spaces* conforming to Section 3.5 that do not contain other *combustible* material, or
- (b) protected against exposure to fire from the service entrance of the emergency power supply, or the normal service entrance of the normal power supply to the equipment served, to ensure operation for a period of 1 h when subjected to the standard fire exposure described in CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

**3.2.6.10. Venting to Aid Fire Fighting**

(1) Means of venting each *floor area* to the outdoors shall be provided by windows, wall panels or smoke shafts, except that in a *sprinklered floor area*, the *floor area* is permitted to be vented by the *building* exhaust system.

(2) Venting described in Sentence (1) shall conform to the requirements in Section 3 of Chapter 3, "Measures for Fire Safety in High Buildings" of the Supplement to the NBC 1990.

(3) Fixed glass windows shall not be used for venting described in Sentence (1) where the breaking of such windows may endanger pedestrians below.

(4) Openable windows used for venting described in Sentence (1) shall be permanently marked so that they are easily identifiable.

(5) Elevator shafts shall not be used for venting described in Sentence (1).

**3.2.6.11. Sprinklers**

(1) Except for *open-air storeys* in a *storage garage*, the following spaces shall be *sprinklered*:

- (a) every *storey*, or part thereof, intended for a Group E or Group F, Division 1 or Division 2 *occupancy*,
- (b) every restaurant or licensed beverage establishment,
- (c) every *storey* or part thereof intended for the storage or handling of hazardous substances, and
- (d) every *floor area* more than 1 000 m<sup>2</sup>, except when the *floor area* is divided into *fire compartments* not more than 1 000 m<sup>2</sup> in area and separated from the remainder of the *floor area* by *fire separations* having *fire-resistance rating* of not less than 1 h.

**3.2.6.12. Central Alarm and Control Facility**

- (1) On the *street* entrance, a central alarm and control facility shall be provided
- (a) in a location that is readily accessible to fire fighters entering the *building*, and
  - (b) that takes into account the effect of background noise likely to occur under fire emergency conditions, so that the facility can properly perform its required function under such condition.
- (2) The central alarm and control facility required in Sentence (1) shall include
- (a) means to control the voice communication system required by Article 3.2.6.13., and provisions to enable messages to be sent to all loudspeakers simultaneously and to individual *floor areas* and *exit stairwells*,
  - (b) means to indicate audibly and visually *alert signals* and *alarm signals* and a switch to
    - (i) silence the audible portion of these signals, and
    - (ii) indicate visually that the audible portion has been silenced,
  - (c) means to indicate visually that elevators are on emergency recall,
  - (d) an annunciator conforming to Article 3.2.4.8.,
  - (e) means to transmit *alert signals* and *alarm signals* to the fire department in conformance with Article 3.2.4.7.,
  - (f) means to release hold-open devices on doors to vestibules,
  - (g) means to manually actuate *alarm signals* in the *building* and to silence these signals in conformance with Sentences 3.2.4.22.(2) and (3), and
  - (h) means to actuate auxiliary equipment or means to communicate with a continually staffed auxiliary equipment control centre, as appropriate to the measure for fire safety provided in the *building*.

**3.2.6.13. Voice Communication System.** When the height of a *building*, measured between *grade* and the floor of the top *storey*, is more than 36 m, or in *buildings* containing a *floor area* or part of a *floor area* located above the third *storey* and designed or intended as a Group B, Division 2 *occupancy*, a voice communication system or systems conforming to Article 3.2.4.22. shall be provided.

**3.2.6.14. Protection of Electrical Conductors**

- (1) Electrical conductors shall be protected against fire exposure in accordance with Sentence (3) if the electrical conductors
- (a) are used in connection with fire alarm systems, voice communication systems, emergency lighting and equipment described in Articles 3.2.6.2. to 3.2.6.13., and
  - (b) are installed in *service spaces* or *service rooms* containing *combustible* material.
- (2) Electrical conductors interconnecting a central alarm and control facility and a fire alarm control unit that are located in separate *fire compartments* or *buildings* shall be protected against fire exposure in accordance with Sentence (3).
- (3) To ensure continued operation for a period of not less than 1 h, electrical conductors described in Sentences (1) and (2)
- (a) shall be protected against fire exposure by a *fire separation* having a *fire-resistance rating*, or
  - (b) shall meet the fire endurance tests when tested in accordance with ULC-S101, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

**3.2.6.15. Testing.** The systems for control of smoke movement and mechanical venting required in Articles 3.2.6.2. and 3.2.6.10. shall be tested to ensure satisfactory operation in accordance with the procedures described in Appendix C to Chapter 3, "Measures for Fire Safety in High Buildings" of the Supplement to the NBC 1990.

**3.2.7. Lighting and Emergency Power Systems****3.2.7.1. Minimum Lighting Requirements**

- (1) Every *exit*, *public corridor*, corridor providing *access to exit* for the public, corridor serving classrooms, corridor serving patients, electrical equipment room, transformer vault and hoistway pit shall be equipped to



provide illumination to an average level of not less than 50 lx at floor or tread level and at all points such as angles and intersections at changes of level where there are stairs or ramps.

(2) Rooms and spaces used by the public shall be illuminated as described in Article 9.34.2.7.

(3) Lighting outlets in a *building of residential occupancy* shall be provided in conformance with Subsection 9.34.2.

(4) Elevator machine rooms shall be equipped to provide illumination to an average level of not less than 100 lx at floor level.

(5) Every place of assembly intended for the viewing of motion pictures or the performing arts, shall be equipped to provide an average level of illumination at floor level in the aisles of not be less than 2 lx during the viewing.

(6) Every area where food is intended to be processed, prepared or manufactured and where equipment or utensils are intended to be cleaned shall be equipped to provide illumination to a level of not less than 500 lx measured at the floor level.

(7) Every storage room, dressing room, sanitary facility, service area and corridor serving the areas in Sentence (6) shall be equipped to provide illumination to a level of not less than 300 lx measured at the floor level.

**3.2.7.2. Recessed Lighting Fixtures.** Recessed lighting fixtures shall not be located in insulated ceilings unless the fixture is designed for such an installation.

#### **3.2.7.3. Emergency Lighting**

(1) Emergency lighting shall be provided to average levels of not less than 10 lx at floor or tread level in

- (a) *exits*,
- (b) principal routes providing *access to exit* in an open *floor area*,
- (c) corridors used by the public,
- (d) corridors serving patients' sleeping rooms,
- (e) corridors serving classrooms,
- (f) underground *walkways*,
- (g) *public corridors*,
- (h) *floor areas* or parts thereof where the public may congregate in
  - (i) Group A, Division 1 *occupancies*, and
  - (ii) Group A, Division 2 and 3 *occupancies* having an *occupant load* of 60 persons or more, and
- (i) all places of assembly with an *occupant load* greater than 60 persons in a *building* containing a *hotel*.

(2) Emergency lighting to provide an average level of illumination at floor or catwalk level of not less than 10 lx shall be included in a *service space* referred to in Article 3.2.1.1.(7).

#### **3.2.7.4. Emergency Power for Lighting**

(1) An emergency power supply shall be provided to maintain the emergency lighting required by this Subsection from a power source such as batteries or generators that will continue to supply power in the event that the regular power supply to the *building* is interrupted and be so designed and installed that upon failure of the regular power it will assume the electrical load automatically for a period of

- (a) 2 h for all *buildings* within the scope of Subsection 3.2.6.,
- (b) 1 h for *buildings* of Group B *major occupancy* classification that are not within the scope of Subsection 3.2.6., and
- (c) 30 min for *buildings* of all other *occupancies*.

(2) Where self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141, "Unit Equipment for Emergency Lighting".

**3.2.7.5. Emergency Power Supply Installation.** Except as provided in Articles 3.2.7.6. and 3.2.7.7., emergency power systems shall be installed in conformance with CAN/CSA C282-M, "Emergency Electrical Power Supply for Buildings".

**3.2.7.6. Emergency Power for Hospitals and Nursing Homes.** Except as provided in Sentence 3.2.7.7.(1), emergency electrical power systems for emergency equipment required in this Part for hospitals and nursing homes shall be installed in conformance with CAN/CSA Z32.4 "Essential Electrical Systems for Hospitals".

**3.2.7.7. Shut-off Valves and Exhaust Pipes**

(1) Where a liquid or gas fuel-fired engine or turbine for an emergency electric power supply is dependent on a fuel supply from outside the *building*, such fuel supply shall be provided with a suitably-identified separate shut-off valve outside the *building*.

(2) Where pipes for exhaust gases from emergency power systems penetrate required *fire-separations*, they shall be enclosed in a separate *service space* having a *fire-resistance rating* equal to that of the penetrated floor assembly, but not less than 45 min.

**3.2.7.8. Emergency Power Supply**

(1) An emergency power supply conforming to Sentences (2), (3) and (4) shall be provided for required fire alarm systems.

(2) The emergency power supply required in Sentence (1) shall be from

- (a) a generator conforming to Article 3.2.7.4.,
- (b) batteries, or
- (c) a combination thereof.

(3) The emergency power supply required in Sentence (1) shall be capable of providing supervisory power for not less than 24 h and emergency power under full load for not less than

- (a) 2 h for *buildings* required to conform to Subsection 3.2.6.,
- (b) 1 h for *buildings* classified as Group B *major occupancy* that are not within the scope of Subsection 3.2.6.,
- (c) 5 min for *buildings* not required to be equipped with an annunciator, and
- (d) 30 min for all other *buildings*.

(4) The emergency power supply required in Sentence (1) shall be designed so that there will be automatic transfer to emergency power in the event of a failure of the normal power source.

(5) An emergency power supply shall be provided for the voice communication system required by Article 3.2.6.13. and shall be capable of maintaining operation of the system for not less than 2 h.

(6) The emergency power supply for the voice communication system required by Sentence (5) shall be capable of full operation immediately upon the failure of the normal source of power.

(7) If the emergency power supply required by Sentence (5) is provided by batteries, the batteries shall be sized to provide the total energy consumed by the maximum possible electrical supervision current plus the trouble signal current for a period of 24 h followed by 30 min of continuous voice communication.

**3.2.7.9. Emergency Power for Building Services**

(1) An emergency power supply capable of operating under a full load for not less than 2 h shall be provided by emergency generator for

- (a) every elevator serving *storeys* above the *first storey* in a *building* that is more than 36 m in height measured between *grade* and the floor level of the top *storey* and every elevator for fire fighters in conformance with Sentence (2),
- (b) water supply for fire fighting in conformance with Article 3.2.5.8., when the supply is dependent on electrical power supplied to the *building*,
- (c) fans and other electrical equipment that are installed to maintain the air quality specified in Article 3.2.6.2., and
- (d) fans required for venting in Article 3.2.6.10.

(2) Except as permitted in Sentence (3), the emergency power supply for elevators in Clause (1) (a) shall be capable of operating all elevators for fire fighters plus one additional elevator simultaneously.

(3) Sentence (2) does not apply when the time to recall all elevators, each from its most remote *storey* to the *street* floor or transfer lobby, under emergency power supply, is not more than 5 min.

### 3.2.8. Mezzanines and Openings through Floor Assemblies

#### 3.2.8.1. Application

(1) Except as provided in Article 3.2.8.2. and Sentence 3.3.4.2.(2), the portions of a *floor area* or *mezzanine* that do not terminate at an exterior wall, a *firewall* or a vertical shaft shall

- (a) terminate at a vertical *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly and extending from the floor assembly to the underside of the floor or roof assembly above, or
- (b) be protected in conformance with the requirements in Articles 3.2.8.3. to 3.2.8.11.

(2) The penetration of floor assemblies by *exits* or *vertical service spaces* shall conform to the requirements of Sections 3.4 and 3.5.

(3) Where a *building* containing a Group B *major occupancy* also contains an *interconnected floor space*, sleeping rooms forming part of a Group B *major occupancy* shall not be located within an *interconnected floor space*.

#### 3.2.8.2. Exceptions to Special Protection

(1) A *mezzanine* need not terminate at a vertical *fire separation* nor be protected in conformance with the requirements in Articles 3.2.8.3. to 3.2.8.11. where the *mezzanine*

- (a) serves a Group A, Division 1 *major occupancy*,
- (b) serves a Group A, Division 3 *major occupancy* in a *building* not more than 2 *storeys* in *building height*,
- (c) is not considered as a *storey* in Sentences 3.2.1.1.(3) or 3.2.1.1.(5) in calculating *building height* provided
  - (i) every point on the *mezzanine* is within 25 m of a point or points on the *mezzanine* perimeter from which, in the aggregate, an occupant may view 60 percent of the area of the room or *storey* in which the *mezzanine* is located, and
  - (ii) does not contain a Group B *occupancy*,
- (d) is not considered a *storey* in Sentence 3.2.1.1.(4) in calculating *building height* provided the *mezzanine* is not more than 500 m<sup>2</sup> in area and does not contain a Group B *occupancy*, or
- (e) is not considered a *storey* in calculating *building height* in Sentence 3.2.1.1.(8).

(2) Except for floors described in Sentence 3.1.10.3.(1) and Article 3.2.1.2., openings through horizontal *fire separations* for vehicular ramps in *storage garages* are not required to be protected with *closures* and need not conform to this Subsection.

(3) Where a *closure* in an opening in a *fire separation* would disrupt the nature of a manufacturing process, such as a continuous flow of material from *storey* to *storey*, the *closure* for the opening is permitted to be omitted provided precautions are taken to offset the resulting hazard.

(4) An *interconnected floor space* in a Group B, Division 1 *occupancy* need not conform to the requirements of Articles 3.2.8.3. to 3.2.8.11. provided the *interconnected floor space* does not interconnect more than 2 adjacent *storeys*.

(5) Except as provided in Sentence (6), openings for stairways, escalators and inclined moving walkways need not conform to the requirements in Articles 3.2.8.3. to 3.2.8.11. provided

- (a) the opening for each stairway, escalator or walkway does not exceed 10 m<sup>2</sup>,
- (b) the *building* is *sprinklered*, and
- (c) the *building* is classified as Group A, Division 1 or 2, Group D or Group E *major occupancy*.

(6) An *interconnected floor space* need not conform to the requirements of Articles 3.2.8.3. to 3.2.8.11. provided

- (a) the *interconnected floor space* consists of the *first storey*, and the *storey* next above or below it, but not both,



- (b) the *interconnected floor space* is sprinklered, and
- (c) the *interconnected floor space* contains only Group A, Division 1 or 2, Group D, Group E, or Group F, Division 3 *major occupancies*.

(7) Reserved.

### 3.2.8.3. Configuration

(1) In *buildings* constructed in conformance with Articles 3.2.8.4. to 3.2.8.11., the unprotected openings through floor assemblies in an *interconnected floor space* shall be of sufficient size and shall be positioned relative to each other so as to be capable of containing, within the full height of the *interconnected floor space*, a cylinder conforming to Sentence (2).

(2) The cylinder referred to in Sentence (1) shall have a cross-section that, where taken at a right angle to the longitudinal axis of such cylinder, is

- (a) a circle at least 9 m in diameter, or
- (b) an ellipse at least 7 m wide along the minor axis and at least 65 m<sup>2</sup> in area.

### 3.2.8.4. Exits

(1) A *building* that is more than 18 m in height, measured between *grade* and the floor level of the top *storey*, and that contains an *interconnected floor space*, shall be designed to limit the passage of smoke from a fire into *exit* stairshafts opening into an *interconnected floor space* so that during a 2 h period after the start of a fire, such stairshafts will not contain more than 1 per cent by volume of contaminated air from the fire floor, assuming an outdoor temperature equal to the January design temperature on a 2.5 per cent basis.

(2) Where a *building* containing an *interconnected floor space* is more than 75 m in height, measured between *grade* and the floor level of the top *storey*, the *exit* stairshaft protection required in Sentence (1) shall be accomplished by the provision, between each *floor area* and each *exit* stairshaft, of a vestibule provided with a mechanical air supply or with a vent opening to the outdoors.

(3) Where a vestibule protecting an *exit* stairshaft is incorporated into the design of the *building* to meet the requirements of Sentences (1) or (2), such vestibule shall

- (a) be designed so that each doorway for a door opening into the vestibule is located at least 1.8 m from a door or doors opening outward from the vestibule,
- (b) be separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* at least equal to that required for the *exit* which it serves except that the *fire-resistance rating* of a *fire separation* between the vestibule and a *public corridor* need not exceed 45 min, and
- (c) not have a door or doors opening into more than one *exit* stairshaft.

(4) Except where *exits* serving the *floor area* are at ground level, the increased travel distance to *exits* permitted by Clause 3.4.2.5.(1) (b) shall not apply to a *floor area* within an *interconnected floor space*.

(5) Where a portion of a *floor area* is not within an *interconnected floor space*, required *access to exit* from such portion of a *floor area* shall not lead through an *interconnected floor space*.

(6) Except as provided in Sentences (7) and (8), portions of an *interconnected floor space* that have floor levels more than 18 m above *grade* shall be served by *exits* that provide at least 0.3 m<sup>2</sup> of area of treads, landings and floor surface for each occupant of such portions of an *interconnected floor space*.

(7) The requirements of Sentence (6) need not be applied where a *floor area* that is a portion of an *interconnected floor space* and that has a floor level more than 18 m above *grade* is separated from the remainder of the *interconnected floor space* by a *fire separation* having a *fire-resistance rating* of at least 1 h, except that no *fire-resistance rating* is required for such *fire separation* where all of the *major occupancies* contained within the *interconnected floor space* may be classified as light hazard *occupancies* in conformance with Appendix A of NFPA 13 "Installation of Sprinkler Systems".

(8) The requirements of Sentence (6) need not be applied where the *exit* stairs that serve *interconnected floor spaces* are designed so that the required units of *exit* width are cumulative.

### 3.2.8.5. Elevators

(1) Except as provided in Sentence (2), where an elevator shaft opens into an *interconnected floor space* and into *storeys* that are above such space and that have floor levels more than 18 m above *grade*, either the elevator doors opening into the *interconnected floor space* or the elevator doors opening into the *storeys* above the *interconnected floor space* shall be protected by vestibules that

- (a) are designed to restrict the passage of contaminated air to the limit described in Sentence 3.2.8.4.(1), and
- (b) conform to the requirements of Sentence 3.2.8.4.(3).

(2) Where elevator doors opening into an *interconnected floor space* are protected by vestibules in conformance with Sentence (1), the elevator doors opening into the lowest *storey* of the *interconnected floor space* need not be protected by such vestibules.

### 3.2.8.6. Group B Sleeping Rooms

(1) Openings provided for access between an *interconnected floor space* and a *building* or a portion of a *building* containing Group B *major occupancy* sleeping rooms shall be provided with vestibules that are provided with a mechanical air supply and that are designed

- (a) to restrict the passage of smoke from the *interconnected floor space* into the area containing sleeping rooms in accordance with the limits described in Sentence 3.2.8.4.(1), and
- (b) in conformance with Clause 3.2.8.4.(3) (a).

### 3.2.8.7. Sprinklers

(1) In a building containing an *interconnected floor space*, *storeys* that are wholly or partially within an *interconnected floor space* and all *storeys* below an *interconnected floor space* shall be *sprinklered*.

(2) In a building containing an *interconnected floor space*

- (a) *waterflow alarm signals* from sprinkler systems shall be transmitted to the fire department in conformance with Sentence 3.2.4.7.(3), and
- (b) sprinkler systems shall be electrically supervised as required in Sentence 3.2.4.16.(5).

### 3.2.8.8. Fire Alarm and Detection System

(1) A building containing an *interconnected floor space* shall be provided with

- (a) a fire alarm system and electrically supervised annunciator conforming to Subsection 3.2.4.,
- (b) a system of *smoke detectors* located
  - (i) on the ceiling of each *storey* in the vicinity of the openings through floor assemblies described in Article 3.2.8.3., except within *dwelling units*, *heat detectors* may be installed instead of *smoke detectors*, and
  - (ii) as required for the activation of the smoke control system described in Sentences (5), (6) and (7) of Article 3.2.8.9., and
- (c) facilities for transmitting a signal to the fire department in conformance with Sentence 3.2.4.7.(3).

### 3.2.8.9. Smoke Control

(1) A smoke control system conforming to Sentences (2) to (8) shall be designed to control the movement of smoke within a *building* containing an *interconnected floor space*.

(2) The design of the smoke control system shall assume an outdoor temperature equal to the January design temperature on a 2.5 per cent basis.

(3) Upon activation of the sprinkler system or automatic detection of smoke by at least two *smoke detectors* in a single zone within an *interconnected floor space*, the system shall

- (a) stop air moving fans which provide for the normal exhausting or re-circulating of air in an *interconnected floor space*,
- (b) activate *exit* stairshaft protection required in Article 3.2.8.4.,
- (c) activate elevator protection required in Article 3.2.8.5., and
- (d) activate the vestibule air supply required in Sentence 3.2.8.6.(1).

(4) A *building* containing an *interconnected floor space* may be designed so that, in the event of a fire arising in a *floor area* or part of a *floor area* within the *interconnected floor space*, automatic detection of such fire will activate air handling equipment that

- (a) extracts air directly from such *floor area* or part of a *floor area* at the rate of at least 6 air changes per hour, and
- (b) supplies air in sufficient quantities and at appropriate locations to prevent smoke from passing out of such *floor area* into other portions of the *interconnected floor space*.

(5) For purposes of Sentences (6) and (7), the volume of an *interconnected floor space* need not include the aggregate volume of those *floor areas* or portions of *floor areas* designed to have zoned air extraction in accordance with Sentence (4).

(6) A mechanical exhaust shall be provided to remove air at the top of an *interconnected floor space* at the rate of at least 6 air changes per hour, except that where the volume of the *interconnected floor space* exceeds 17 000 m<sup>3</sup>, only 4 air changes per hour need be provided.

(7) Except where zoned mechanical exhaust described in Sentence (4) has been activated, upon automatic detection of smoke within the volume of the *interconnected floor space*, the mechanical exhaust described in Sentence (6) shall be automatically activated and supply air shall be provided in sufficient quantity and at appropriate locations to allow a consistent rate of removal of smoke throughout the volume of the *interconnected floor space*.

(8) Overriding manual controls for the smoke control system shall be provided for fire department use at an acceptable location in the vicinity of the fire alarm annunciator.

**3.2.8.10. Emergency Power Supply.** In a *building* that is more than 18 m in height, measured between *grade* and the floor level of the top *storey*, an emergency power supply capable of operating under a full load for at least 2 h shall be provided by an emergency generator or by a separate service not supplied by the same substation as the primary source for fans required for smoke control purposes in Articles 3.2.8.4., 3.2.8.5., 3.2.8.6., and 3.2.8.9.

**3.2.8.11.** The systems for smoke control and venting described in Articles 3.2.8.4., 3.2.8.5., 3.2.8.6. and 3.2.8.9. shall be tested to ensure satisfactory operation.

### **3.2.9. Standpipe and Hose Systems**

#### **3.2.9.1. Standpipe and Hose Systems Required**

(1) Except as provided in Sentence (3), a standpipe and hose system with 38 mm diameter hose connections shall be installed

- (a) in every *building* that is
  - (i) more than 3 *storeys* in *building height* or more than 14 m in height measured between *grade* and the ceiling of the uppermost *storey*, or
  - (ii) greater in *building area* than the area shown in Table 3.2.9.A. for the applicable *building height* shown in the Table where the *building* is not *sprinklered* and does not exceed 14 m in height measured between *grade* and the ceiling of the top *storey*, and
- (b) in every *basement* of a *building* that
  - (i) requires a standpipe system above *grade*, or
  - (ii) has more than one *storey* below *grade*, except for a *service room* less than 50 m<sup>2</sup> in area located on the lowest *storey*.



**Table 3.2.9.A.**  
Forming Part of Sentence 3.2.9.1.(1)

Occupancy Classification	Building Area, m <sup>2</sup>		
	1 storey	2 storeys	3 storeys
A	2 500	2 000	1 500
B (except hospitals without detention quarters)	2 000	1 500	1 000
Hospitals	500	500	500
C	2 000	1 500	1 000
D	4 000	3 000	2 000
F, Division 1	1 000	1 000	1 000
F, Division 2	2 000	1 500	1 000
F, Division 3	3 000	2 000	1 000
Column 1	2	3	4

(2) In addition to the requirements in Sentence (1), 65 mm diameter hose connections shall also be provided in buildings which

- (a) exceed 25 m in height, measured between *grade* and the ceiling level of the *top storey*, or
- (b) exceed 4 000 m<sup>2</sup> in *building area*.

(3) A standpipe need not be installed in a *storage garage* conforming to Article 3.2.2.60. provided the *building* is not more than 15 m in height.

(4) Pipes supplying a standpipe system shall be of a size conforming to Table 3.2.9.B. or be hydraulically designed to meet the requirements of Article 3.2.9.3.

**Table 3.2.9.B.**  
Forming Part of Sentence 3.2.9.1.(4)

Size of Building		Minimum Nominal Size of Piping, in.		
Height of Building <sup>(1)</sup>	Building Area	Standpipe Risers <sup>(3)</sup>	From Street Main and Fire Dept. Connect. to Standpipe Riser	Lateral Extensions <sup>(2)</sup>
Up to 25 m	Up to and including 4 000 m <sup>2</sup>	2	2	2
	More than 4 000 m <sup>2</sup>	4	4	4
Over 25 m	Unlimited Area	6	6	6
Column 1	2	3	4	5

**Notes to Table 3.2.9.B.:**

- (1) A mechanical penthouse that exceeds 50 m<sup>2</sup> in *floor area* shall be considered 3.7 m in height of *building* for the purpose of this Table.
- (2) Lateral extension means piping from the first riser to the intermediate or last riser.
- (3) Riser means vertical pipe supplying water to one or more hose stations.

(5) Pipe, connecting one or more hose stations containing 65 mm diameter hose connections to a riser or lateral extension in any single *storey*, shall be of a size conforming to Table 3.2.9.C. or be hydraulically designed to meet the requirements of Article 3.2.9.3.

**Table 3.2.9.C.**  
Forming Part of Sentence 3.2.9.1.(5)

Piping Runouts to Hose Stations Containing 65 mm Hose Connections		
Riser Size, in.	Number of Cabinets	Minimum Nominal Size of Piping, in.
4	1	3
	2 or more	4
6	1	3
	2 or 3	4
	4 or more	6
Column 1	2	3

### 3.2.9.2. Hose Stations

(1) Hose stations shall be located

- (a) so that every portion of the *building* can be reached by a hose stream and is within 3 m of a hose nozzle when 30 m of hose is extended,
- (b) not more than 5 m from every required *exit* serving a *floor area*, except
  - (i) for the first *storey*, or
  - (ii) where additional hose stations are required to achieve full coverage of the *floor area*, and
- (c) in a conspicuous location where they are not likely to be obstructed.

(2) Except as permitted in Sentence (12), hose stations shall be located so that it is not necessary to penetrate an *exit* stairwell to provide full design coverage.

(3) A hose station located on one side of a *horizontal exit* or *firewall* shall be considered to serve only the *floor area* on that side of such *exit* or *firewall*.

(4) Hose connections shall be provided with

- (a) a sufficient clearance so that there is no interference with the prompt use of the hose valves, or standard fire department hose key and adapter, and
- (b) at least 25 mm clearance between any part of the cabinet and the handle of the valve.

(5) Hose connections shall be within 750 mm to 1 500 mm from the floor.

(6) Suitable means shall be provided to prevent the pressure on the hose from exceeding 620 kPa (gauge) when flowing.

(7) Hose valves shall be provided with suitable connections installed so that leakage past the valve seat will be carried off.

(8) Every hose station shall be equipped with a hose rack filled with not more than 30 m of 38 mm fire hose and the hose rack and fire hose shall be

- (a) *listed*, or
- (b) approved by the Factory Mutual Research Corporation.

(9) The hose at hose stations shall be equipped with a shut-off type adjustable spray to straight stream nozzle.

(10) Where a 65 mm hose valve is provided in a hose station, it shall be equipped with a cap and chain for the use of a fire department.

(11) Couplings for hoses or other fittings used in connection with such couplings shall conform to ULC S513, "Standard for Threaded Couplings for 38 mm and 65 mm Fire Hose" or ULC S543, "Standard for Internal Lug Quick Connect Couplings for Fire Hose".

- (12) Standpipes and hoses shall be installed for each roof enclosure exceeding 50 m<sup>2</sup> in *floor area*.
- (13) Every hose cabinet shall be
- (a) provided with a transparent viewing panel at least 5 mm thick constituting at least 70 per cent of the door area, or
  - (b) clearly and conspicuously labelled with the words FIRE HOSE CONNECTION, with letters at least 150 mm in height with 19 mm stroke.
- (14) Hose rack, nozzle, fire hose and valves shall be in a hose cabinet except that in a Group F *occupancy*, a hose cabinet need not be provided.
- (15) Hose cabinets shall be of sufficient size to contain the equipment in Sentence (14) and a *listed* fire extinguisher.
- (16) Every hose cabinet shall be located so that its door, when fully opened, will not obstruct the required width of a *means of egress*, and when connected to a dry standpipe system it shall be clearly identified with the words DRY STANDPIPE SYSTEM.
- (17) Hose stations in a Group B, Division 1 *major occupancy* are permitted to be located in secure areas, or in lockable cabinets provided that
- (a) identical keys for all cabinets are located at all guard stations, or
  - (b) electrical remote release devices are provided and are connected to an emergency power supply.

### 3.2.9.3. Water Supply

- (1) Except for Sentence (2), standpipe systems shall be wet and directly connected to an adequate source of water.
- (2) Where freezing of piping may occur, a dry standpipe system may be provided and so arranged through the use of *listed* devices to automatically admit water to the system by opening of a hose valve and transmit a signal to an attended location.
- (3) Where the standpipe system for a *building* requires 38 mm diam hose connections in conformance with Sentence 3.2.9.1.(1), the system shall
- (a) be equipped with hose stations having one 38 mm diam hose valve, and
  - (b) have a water supply sufficient to provide a minimum flow of 380 L/min for at least 30 min at a pressure of at least 450 kPa (gauge) measured at the two highest and most remote hose valves or hose connections, provided that not less than 190 L/min can be supplied from each of the two outlets simultaneously, and where the water main pressure is not sufficient to maintain these pressure and flow requirements, pumping equipment shall be provided to ensure that the pressure and flow requirements are met.
- (4) Where the standpipe system for a *building* less than 84 m in height, measured between *grade* and the ceiling level of the top *storey*, is required to have 65 mm diam hose connections, such standpipe system shall
- (a) be equipped with hose stations having one 38 mm and one 65 mm diam hose valve,
  - (b) have pumping capacity sufficient to supply a minimum flow of 380 L/min for at least 30 min at a minimum discharge pressure of 450 kPa (gauge) to the two highest and most remote 38 mm hose valves, provided that not less than 190 L/min can be supplied from each of the two outlets simultaneously, and
  - (c) have provision via the fire department connection to supply 1 890 L/min to the two highest and most remote 65 mm hose valves, provided that not less than 945 L/min can be supplied from each of the two outlets simultaneously.
- (5) The standpipe system for a *building* 84 m or more in height, measured between *grade* and the ceiling level of the top *storey*, shall
- (a) be equipped with hose stations having one 38 mm and one 65 mm diam hose valve,
  - (b) have pumping capacity sufficient to provide a minimum flow of 1 890 L/min for at least 30 min at a minimum discharge pressure of 450 kPa (gauge) at the two highest and most remote 65 mm hose valves, provided that not less than 945 L/min can be supplied from each of the two outlets simultaneously, and



(c) be served by at least two sources of water supply from a public water system.

(6) The residual water pressure at the design flow rate at the topmost outlet of the standpipe and hose system that is required to be installed in a *building* is permitted to be less than 450 kPa provided that

- (a) the *building* is *sprinklered* in conformance with the requirements of Sentence 3.2.5.13.(1),
- (b) the water supply at the base of the sprinkler riser is capable of meeting the design flow rate and pressure demand of the sprinkler system, including the inside and outside hose allowances, and
- (c) fire protection equipment is available to deliver, by means of the fire department connection, the full demand rate at a residual water pressure of 450 kPa at the topmost outlet of the standpipe and hose system.

(7) A mechanical penthouse that exceeds 50 m<sup>2</sup> in *floor area* shall be considered a *storey* or 3.7 m in height of *building* for the purposes of Sentences (4), (5), (11) and (12).

(8) Pumping equipment for standpipe systems shall start automatically on pressure drop and stop manually.

(9) Pumps required to have a discharge pressure greater than 280 kPa (gauge) and their controllers shall be *listed* and labelled.

(10) To permit maintenance of every pump serving a standpipe system, each pump shall be provided with a bypass complete with check valve and check valve isolating control valve having the same size as the main feeding the standpipe system.

(11) A *building* 84 m or more in height, measured between *grade* and the ceiling level of the top *storey*, shall be provided with a standby fire pump capable of delivering a water supply as required in Sentence (5).

(12) A *building* 84 m or more in height, measured between *grade* and the ceiling level of the top *storey*, shall be equipped with water storage capacity at the top of the *building* to supply a minimum flow of 1 890 L/min for at least 30 min at a minimum discharge pressure of 450 kPa (gauge) to the two most remote hose valves or hose connections, provided that not less than 945 L/min can be supplied from each of the two outlets simultaneously.

(13) A standpipe connection shall be upstream of any water meter.

(14) Standpipe risers shall

- (a) be cross-connected at the bottom of each pressure zone, and
- (b) where supplied by gravity tanks or pressure tanks, they shall also be cross-connected at the top and a check valve shall, if necessary, be provided at the base of every riser to prevent circulation.

(15) An indicating type control valve located inside a *building* or a post indicator valve located outside shall be provided for every water supply facility serving a standpipe system and shall be installed in an accessible location.

(16) Check valves shall be installed to prevent water flow from a standpipe system through the fire department connection and every water supply system.

(17) Except for Article 3.2.9.4., where a water supply serves both a standpipe system and a system serving other equipment, control valves shall be provided so that either system can be shut off independently.

(18) Sufficient control valves shall be provided to permit shutting off every standpipe riser without interrupting the water supply to other risers.

(19) Every valve controlling a water supply to a standpipe system shall be in its normal operating position and shall be clearly identified.

(20) Each valve controlling water supplies in a standpipe system, except for hose valves, shall be equipped with an electrically supervised switch for transmitting a signal for individual annunciation in the event of movement of the valve handle.

(21) Pressure gauges shall be

- (a) installed
  - (i) at every water supply connection,
  - (ii) at the highest point of every standpipe riser, and
  - (iii) before and after all pumps,

- (b) connected by at least 6 mm diam pipe or tubing, and
  - (c) equipped with a shut-off valve.
- (22) Each standpipe riser shall be provided with drain valves piped to open drain.
- (23) A drain required in Sentence (22) shall be designed to
- (a) be free from freezing,
  - (b) allow complete draining of the system for repairs, and
  - (c) allow conducting of operational tests.

#### 3.2.9.4. Combined Systems

- (1) Where piping serves both automatic sprinkler and standpipe systems, the requirements in Sentences (2) to (6) shall apply.
- (2) Automatic sprinkler and standpipe connections shall be provided with independent electrically supervised control valves on each floor.
- (3) The control valves in Sentence (2) shall be
- (a) of the same size as the riser connection, and
  - (b) installed in a readily identifiable and accessible location not more than 3 m from the riser.
- (4) Riser connections for hose stations and automatic sprinkler systems shall be located on the floor they serve.
- (5) The required water demand for each floor shall be the required demand for the sprinkler system in Article 3.2.5.13. plus the demand required in Sentences 3.2.9.3.(3), (4) and (5).
- (6) The minimum size of a riser shall be 6 in. or it shall be hydraulically designed to meet the requirements of Article 3.2.9.3.

#### 3.2.9.5. Fire Department Connections

- (1) A standpipe system shall be served by at least one fire department connection.
- (2) Fire department connections for standpipe systems shall be located so that the distance from a fire department connection to a hydrant does not exceed 45 m and is unobstructed.
- (3) Every fire department connection shall be
- (a) located on the outside of a *building* adjacent to a *street* or an access route, at least 300 mm and not more than 900 mm above ground level,
  - (b) provided with two 65 mm hose connections with female swivel hose couplings having hose threads conforming to the requirements of Sentence 3.2.9.2.(11),
  - (c) provided with sufficient clearance around the couplings to use a standard fire department hose key for tightening, and
  - (d) equipped with a cap or plug to protect the threads and to exclude foreign matter.
- (4) Check valves shall be provided in every fire department connection or a single check valve shall be provided to shut one outlet when the other is in use.
- (5) Shut-off valves shall not be installed in the fire department connection.
- (6) An automatic drain valve shall be provided in the fire department connection at its lowest point, between the connection and the check valve.
- (7) The fire department connection shall be designated by a sign having raised letters, at least 25 mm in size, cast on a metal plate or fitting.
- (8) Except as provided in Sentence (9), the sign for the fire department connection shall display the word **STANDPIPE**.
- (9) Where automatic sprinkler and standpipe systems are served by the same fire department connection, the word **STANDPIPE** and the word **SPRINKLER** shall be displayed.

**3.2.9.6. Piping and Fittings**

(1) Pipe and tube used in a standpipe system shall

(a) be designed to withstand a working pressure of not less than 1 210 kPa (gauge), and

(b) conform to the following standards

(i) ASTM A120, "Pipe, Steel, Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses",

(ii) ANSI Standard B36.10, "Welded and Seamless Wrought Steel Pipe",

(iii) ASTM B75, "Seamless Copper Tube", or

(iv) ASTM B251, "General Requirements for Wrought Seamless Copper and Copper-Alloy Tube".

(2) Brazing alloy for standpipe systems shall conform to AWS Classification BCUP-3 of American Welding Society Specification A5.8-76, "Brazing Filler Metal".

(3) The minimum wall thickness for ferrous piping for working pressures

(a) up to 2 070 kPa (gauge) shall be

(i) at least Schedule 40 pipe, except that Schedule 30 pipe may be used for piping 8 in. and larger in size for threaded or cut groove connections, and

(ii) Schedule 10 pipe for sizes up to 5 in. pipe, the minimum wall thickness shall be 3.4 mm for 6 in. pipe, 4.8 mm for 8 in. and 10 in. pipes for welded or rolled groove connections, and

(b) over 2 070 kPa (gauge), shall be at least Schedule 60 pipe or for sizes not subject to Schedule classification, at least "extra heavy" type.

(4) Standard fittings shall be at least "extra heavy" type when the pressures may exceed 1 210 kPa (gauge).

(5) All pipe connections shall be

(a) made by means of threaded, flange or welding fittings, or

(b) *listed* for this service.

(6) Where welded connections are used in a standpipe system, welding fittings shall be used.

(7) Hangers and supports shall be

(a) of a *listed* type so arranged that they will sustain the loads and retain the piping securely in position, and

(b) substantially supported from the *building* structure which must support the added load of the water-filled pipe plus a minimum of 115 kg applied at the point of hanging.

(8) Supports for standpipe risers

(a) shall be attached directly to the risers,

(b) shall be provided at

(i) the lowest level,

(ii) each alternate level above, and

(iii) the top of the risers, and

(c) above the lowest level, shall restrain the pipe to prevent movement by an upward thrust when flexible fittings are used.

(9) Lateral runs from the standpipe to the hose valve which are over 460 mm in length shall be provided with hangers.

(10) Horizontal standpipe runs shall be provided with hangers spaced at a maximum distance of 4.6 m.

(11) Valves shall be "standard weight" for pressures up to 1 210 kPa (gauge) and shall be "extra heavy" for pressures in excess of 1 210 kPa (gauge), and shall be *listed*.



(12) Hose valves shall be angle-type.

(13) Valves controlling water supplies to standpipe systems shall be indicating type control valves.

(14) When piping for standpipe systems is identified or colour coded, such identification shall conform to CGSB 24-GP-3a "Code of Identification and Classification of Piping Systems".

### 3.2.9.7. Testing

(1) Standpipe systems, including yard piping, shall be tested hydrostatically at not less than 1 380 kPa (gauge) pressure for 2 h, or at 345 kPa (gauge) in excess of the normal pressure when the normal pressure is in excess of 1 035 kPa (gauge).

(2) A flow test shall be conducted at the hydraulically most remote outlets to assure that the flow requirements in Sentences 3.2.9.3.(3), (4) and (5) are met.

(3) Piping between the fire department connection and the check valve in the inlet pipe shall be flushed with a sufficient volume of water so as to remove all construction debris and trash.

## Section 3.3 Safety Requirements Within Floor Areas

### 3.3.1. Requirements Applying to All Floor Areas

#### 3.3.1.1. Separation of Suites

(1) Except as permitted by Sentence (2), each *suite* in other than *business and personal services occupancies* shall be separated from adjoining *suites* by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that a *fire-resistance rating* of not less than 45 min is permitted where the *fire-resistance rating* of the floor assembly is not required in Subsection 3.2.2. to be more than 45 min.

(2) In *sprinklered buildings*, *suites* of *business and personal services occupancy* and *mercantile occupancy* that are served by *public corridors* conforming with Clause 3.3.1.4.(1) (c) are not required to be separated from each other by *fire separations*.

#### 3.3.1.2. Hazardous Substances, Equipment and Processes

(1) Where hazardous substances are used in connection with the activities of any *occupancy* other than as provided in Subsection 3.3.5. for a Group F, Division 1 *occupancy*, the storage, handling and use of such substances shall be in conformance with the provisions of the Ontario Fire Code made under the Fire Marshals Act, or in the absence of requirements pertinent to specific substances in the Ontario Fire Code, with the provisions of the ACNBC National Fire Code of Canada 1990.

(2) In kitchens containing commercial cooking equipment used in processes producing grease-laden vapours, the equipment shall be designed and installed in conformance with Part 6.

(3) Fuel-fired *appliances* shall not be installed in any corridor serving as *access to exit*.

#### 3.3.1.3. Means of Egress

(1) An *access to exit* shall be provided from every roof which is intended for *occupancy*, and from every podium, terrace, platform or contained open space.

(2) *Access to exits* within *floor areas* shall conform to Subsections 3.3.2. to 3.3.5. in addition to the requirements of this Subsection.

(3) Where a roof is used or intended for an *occupant load* of more than 60 persons, at least 2 separate *means of egress* shall be provided from the roof to stairs, designed in conformance with the requirements for *exit* stairs, located so that the distance between such stairs conforms to the requirements in Article 3.4.2.3. for *exits*.

(4) Where a podium, terrace, platform or contained open space is provided, egress requirements shall conform to the appropriate requirements for rooms and *suites* in Sentence 3.3.1.5.(1).

(5) A roof top enclosure shall be provided with an *access to exit* that leads

(a) to an *exit* at the roof level, or

(b) to an *exit* on the *storey* immediately below the roof.

(6) A roof top enclosure which is more than 200 m<sup>2</sup> in area shall be provided with not less than 2 *means of egress*.

(7) Two points of egress shall be provided from a *service space* referred to in Sentence 3.2.1.1.(7) if the area

of the *service space* is more than 200 m<sup>2</sup>, and the travel distance measured from any point in the *service space* to a point of egress is more than 25 m.

(8) Except as permitted in Sentences 3.3.4.4.(5) and (6), each *suite* in a *floor area* that contains more than 1 *suite* shall have an exterior *exit* doorway or a doorway into a *public corridor* or to an exterior passageway.

(9) Except as permitted in this Section and in Sentence 3.4.2.1.(2), at the point where a doorway in Sentence (8) opens to a *public corridor* or exterior passageway, it shall be possible to go in opposite directions to each of 2 separate *exits*.

(10) *Means of egress* for below ground *service rooms* which are not normally occupied may be provided by stairways or fixed ladders.

3.3.1.4. Public Corridor Separations

(1) Except as otherwise required in this Part, *public corridors* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h except that

- (a) the *fire-resistance rating* need not be more than 45 min when the *fire-resistance rating* of the floor assembly is not required to be more than 45 min,
- (b) no *fire-resistance rating* is required when the *floor area* is *sprinklered* and the corridor does not serve an *institutional occupancy* or a *residential occupancy*,
- (c) no *fire separation* is required in a *sprinklered floor area* where
  - (i) the corridor is more than 5 m in unobstructed width, and
  - (ii) the corridor does not serve an *institutional occupancy* or a *residential occupancy*,
- (d) a floor assembly above a crawl space that is not considered a *basement* in Sentence 3.2.2.5.(2) is not required to be a *fire separation*, and
- (e) no *fire separation* is required in a *sprinklered floor area* where an *occupancy* in the corridor conforms to the requirements of Sentence 3.3.1.9.(6).

(2) The sprinkler system in Clauses (1) (b) and (c) shall be electrically supervised in conformance with Sentence 3.2.4.16.(5) and, upon operation, shall cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(3) when the corridor serves a Group E or Group F, Division 1 or 2 *occupancy*.

3.3.1.5. Egress Facilities

(1) Every room and every *suite* shall have 2 egress doorways placed in such a manner that one doorway could provide egress from the room or *suite* as required in Article 3.3.1.3. if the other doorway becomes inaccessible to the occupants due to a fire which might originate in the room or *suite*

- (a) where the *occupancy* is classified as Group F, Division 1,
- (b) which is intended for an *occupant load* of more than 60 persons, or
- (c) where the area of a room or *suite*, or the distance measured from any point within the room or *suite* to the nearest egress doorway is more than the values shown in Table 3.3.1.A.

Table 3.3.1.A.  
Forming Part of Sentence 3.3.1.5.(1)

Occupancy of Room or Suite	Maximum Area of Room or Suite, m <sup>2</sup>	Maximum Distance to Egress Doorway, m
Group A	150	15
Group B, Division 1	75	10
Group B, Division 2 sleeping rooms	75	10
Group B, Division 2 other than sleeping rooms	150	25
Group C dwelling units	Unlimited	25
Group C other than dwelling units	150	25
Group D	200	25
Group E	200	25
Column 1	2	3

**Table 3.3.1.A.—(Cont'd)**  
Forming Part of Sentence 3.3.1.5.(1)

Occupancy of Room or Suite	Maximum Area of Room or Suite, m <sup>2</sup>	Maximum Distance to Egress Doorway, m
Group F, Division 2	200	25
Group F, Division 3	200	25
Column 1	2	3

(2) Except for a *mezzanine* within a *dwelling unit*, every *mezzanine* that is not required to terminate at a vertical *fire separation* in Article 3.2.8.2. shall have 2 egress facilities placed in such a manner that one facility could provide egress from the *mezzanine* if the other facility becomes inaccessible to the occupants of the *mezzanine* due to a fire which might originate in the room or *suite* in which the *mezzanine* is located where

- (a) the *occupancy* of the *mezzanine*, room or *suite* is classified as Group F, Division 1,
- (b) the *mezzanine* is intended for an *occupant load* of more than 60 persons,
- (c) the area of the *mezzanine* exceeds the area limits for rooms or *suites* in Table 3.3.1.A., or
- (d) the distance limits in Table 3.3.1.A. are exceeded when measured from any point on the *mezzanine* to
  - (i) the egress doorway from the room or *suite* in which the *mezzanine* is located where that room or *suite* has a single egress doorway, and
  - (ii) an egress facility leading from the *mezzanine* where the room or *suite* in which the *mezzanine* is located has 2 egress doorways provided in conformance with this Subsection.

(3) Except for a *mezzanine* which is not considered as a *storey* in calculating *building height* in Sentence 3.2.1.1.(3), where the space below a *mezzanine* is enclosed, an egress facility from the *mezzanine* shall not lead into the enclosed space.

**3.3.1.6. Travel Distance.** Where more than one egress doorway is required from a room or *suite* in Sentence 3.3.1.5.(1), the travel distance within the room or *suite* to the nearest egress doorway shall not exceed the maximum travel distances described in Article 3.4.2.5. for *exits*.

### **3.3.1.7. Protection on Floor Areas with a Barrier-Free Path of Travel**

(1) Except as provided in Sentences (2) and (3), where a *barrier-free* path of travel is provided above or below the *first storey* in a *building*, every *floor area* having access shall

- (a) be served by an elevator conforming to Sentences 3.2.6.9.(4) to (6), protected against fire in conformance with Clauses 3.2.6.9.(3) (b) or (c) and, in a *building* over 3 *storeys* in *building height*, protected against smoke movement in conformance with Sentence 3.2.6.2.(4), or
- (b) be divided into not less than 2 zones by *fire separations* conforming to Sentences 3.3.3.6.(8) and (9) so that
  - (i) persons with physical disabilities can be accommodated in each zone,
  - (ii) the travel distance from any point in one zone to a doorway leading to another zone shall be not more than the value for travel distance permitted by Sentence 3.4.2.5.(1) for the *occupancy* classification of the zone, and
  - (iii) a *barrier-free* path of travel is provided to an *exit*.

(2) The requirements of Sentence (1) are waived in the case of *residential occupancies* where, except on the *storey* containing the access entrance described in Article 3.7.1.2., balconies conforming to Sentence 3.2.6.6.(1) are provided.

(3) The requirements of Sentences (1) and (2) are waived when the *building* is *sprinklered*.

**3.3.1.8. Headroom Clearance.** Except within the *floor area* of a *storage garage*, the minimum headroom clearance in every *access to exit* shall conform to the requirements in Article 3.4.3.7. for *exits*.

### **3.3.1.9. Corridors**

(1) The minimum width of every *public corridor* shall be 1 100 mm.



(2) Except as required in Sentence 3.3.3.3.(2), the minimum unobstructed width shall be 1 100 mm for every

- (a) corridor used by the public,
- (b) corridor serving classrooms, and
- (c) corridor in Group B, Division 2 *occupancies* where the corridor
  - (i) serves *service rooms*,
  - (ii) serves administrative areas,
  - (iii) will not be used by non-ambulatory outpatients, or
  - (iv) is in a nursing home or home for the aged which will accommodate only ambulatory residents.

(3) Except as permitted in Sentence (4), obstructions located within 1 980 mm of the floor shall not project more than 100 mm horizontally into *exit* passageways, *public corridors*, corridors used by the public or corridors serving classrooms or patients' sleeping rooms in a manner that would create a hazard for visually impaired persons travelling adjacent to walls.

(4) The horizontal projection of an obstruction in Sentence (3) is permitted to be more than 100 mm where it extends to less than 680 mm above the floor.

(5) Where a *public corridor*, corridor used by the public or a corridor serving classrooms or patients' sleeping rooms contains an *occupancy*, such *occupancy* shall not reduce the unobstructed width of the corridor to less than its required width.

(6) If a *public corridor* conforming to Clause 3.4.2.5.(1) (d) contains an *occupancy*, the *occupancy* shall be located so that there is an unobstructed width for pedestrian travel of not less than 3 m adjacent and parallel to all rooms and *suites* that front onto the *public corridor* and the combined area of all *occupancies* in a *public corridor* shall be not more than 15 per cent of the area of the *public corridor*.

(7) Except as provided in Sentence 3.3.3.3.(1), dead end corridors shall conform to Sentences (8) to (14).

(8) A dead end corridor is permitted in an *assembly occupancy* where there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(9) In a *residential occupancy*, except for corridors served by a single *exit* as described in Sentence 3.3.4.4.(6), a dead end *public corridor* is permitted provided it is not more than 6 m long.

(10) Dead end corridors in Sentence (9) shall serve not more than 4 *suites* and shall contain no door openings other than for *suites*, arranged so that it is not necessary to pass more than 2 doors in the dead end corridor in travelling to the nearest *exit*.

(11) A dead end *public corridor* is permitted in a *business and personal services occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(12) A dead end corridor is permitted in a *mercantile occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(13) A dead end corridor is permitted in a *low or medium hazard industrial occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(14) A dead end corridor is permitted in a *high hazard industrial occupancy* where there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

#### 3.3.1.10. Door Swing

(1) Except as provided in Article 3.3.1.11., every door that opens into a corridor or other facility providing *access to exit* from a *suite* or room not located within a *suite* shall swing on a vertical axis, and where a room or *suite* is used or intended for an *occupant load* of more than 60 persons or for a Group F, Division 1 *occupancy*, the door shall swing in the direction of *exit* travel.

(2) Except as provided in Sentence (3), every door that divides a corridor where such corridor is required to be separated from the remainder of the *floor area* by a *fire separation* shall swing on a vertical axis in the direction of *exit* travel.

(3) Where the corridor in Sentence (2) is divided by paired doors which provide *access to exit* in opposite directions,

- (a) the doors shall swing on a vertical axis,
- (b) the doors shall swing in opposite directions, and
- (c) the right hand door shall swing in the direction of *exit* travel.

#### 3.3.1.11. Sliding Doors

(1) Except as permitted in Sentence (2), a sliding door provided in the locations described in Sentence 3.3.1.10.(1) shall

- (a) be designed and installed to swing on the vertical axis in the direction of *exit* travel when pressure is applied, and
- (b) be identified as a swinging door by means of a label or decal affixed to it.

(2) In a Group B, Division 1 *occupancy*, or in an *impeded egress zone* in other *occupancies*, sliding doors used in an *access to exit* need not conform to Sentence (1) and Article 3.3.1.10.

(3) Movable *partitions* which are intended to be open during normal working hours and are used to separate a *public corridor* from an adjacent Group D or E *occupancy* need not conform to Sentences (1) and 3.3.1.10.(1).

#### 3.3.1.12. Doors

(1) Every door that opens into or is located within a *public corridor* or other facility that provides *access to exit* from a *suite* shall

- (a) be not less than 800 mm wide where there is only one door leaf,
- (b) have no single leaf in any multiple leaf door less than 600 mm wide,
- (c) not open onto a step, and
- (d) be readily openable in travelling to an *exit* without requiring keys, special devices or specialized knowledge of the door opening mechanism, except as permitted in Sentences (2) and (3).

(2) Egress doors in an *access to exit* serving a *contained use area* or an *impeded egress zone* are permitted to be equipped with locking devices that can be released either locally or remotely provided

- (a) local locking devices are operable by a key from both sides of the door,
- (b) controls for the remote release of door locking devices are located in an area readily available to security personnel, and

- (c) electrical release devices are designed to operate on emergency power and are also manually operable by security personnel.

(3) Except for a door in a *building* containing a *hotel* or a door leading directly from a Group F, Division 1 *occupancy*, a door in an *access to exit* is permitted to be equipped with an electromagnetic locking device conforming to Sentence 3.4.6.15.(4).

(4) Except as required in Article 3.3.3.5., in a Group B, Division 2 *occupancy*, every door that opens into or is located within a corridor or other facility that provides *access to exit* shall comply with Sentence (1) where the door

- (a) serves *service rooms*,
- (b) serves administrative areas,
- (c) will not be used by non-ambulatory outpatients,
- (d) is located within a patients' or residents' sleeping room,
- (e) is in a nursing home or home for the aged which will accommodate only ambulatory residents.

### 3.3.1.13. Ramps, Stairways and Passages

(1) Except as provided in Sentence (2), Articles 3.3.4.8. and 3.3.1.14., ramps, stairways and passageways used by the public as *access to exit* shall conform with the requirements in Subsection 3.4.6.

(2) Ramps and stairways that do not conform to the requirements of Sentence (1) are permitted to serve *service rooms* and *service spaces* and are permitted in *industrial occupancies*, provided the ramps and stairways are intended only for occasional use for servicing equipment and machinery.

3.3.1.14. **Exterior Passageways.** Exterior passageways leading to a required *exit* shall conform to the requirements in Section 3.4 for exterior *exit* passageways.

3.3.1.15. **Curved or Spiral Stairs.** A curved or spiral stair having treads with a minimum run of not less than 150 mm, a minimum average run of not less than 200 mm and having risers in conformance with Sentence 3.4.6.7.(2) is permitted in a stairway not required as an *exit*.

### 3.3.1.16. Capacity of Access to Exit

(1) The capacity of an *access to exit* shall be based on the *occupant load* of the portion of the *floor area* served.

(2) In an *access to exit* the required width of ramps with a gradient of not more than 1 in 8, doorways, corridors and passageways shall be based on not less than 6.1 mm per person.

(3) In an *access to exit* the required width of a ramp with a gradient of more than 1 in 8 shall be based on not less than 9.2 mm per person.

(4) In an *access to exit* from a *floor area* used or intended to be used for patients in a Group B, Division 2 *occupancy* the required width of corridors, doorways, passageways and ramps shall be based on not less than 18.4 mm per person.

(5) Stairs in an *access to exit* shall conform to the requirements for stairs in Article 3.4.3.5.

### 3.3.1.17. Guards

(1) A *guard* not less than 1 070 mm high shall be provided

- (a) around each roof to which access is provided for other than maintenance,
- (b) at openings into smoke shafts described in Subsection 3.2.6. that are less than 1 070 mm above the floor, and
- (c) at each raised floor, *mezzanine*, balcony, gallery and other locations where the difference in floor elevations is more than 600 mm.

(2) The height of *guards* on stairs used by the public but not forming part of a required *exit* shall be not less than 920 mm measured vertically to the top of the *guard* from a line drawn through the outside edges of the stair nosings and shall be not less 1 070 mm around landings.

(3) Except as provided in Sentence 3.3.2.8.(4), the size of any opening through a required *guard* serving a room, stairway or space to which the public is admitted or serving an exterior balcony shall be such as to prevent the passage of a spherical object having a diameter of 100 mm in *residential occupancies*, day care centres,



nurseries or other similar type *occupancies* where children may be present and 200 mm in other *occupancies*, unless it can be shown that the location and size of openings that exceed these limits do not present a hazardous condition.

### 3.3.1.18. Transparent Doors and Panels

(1) Except for *dwelling units* and as provided in Sentence (4), every glass or transparent door shall be designed and constructed so that the existence and position of such door is readily apparent by attaching thereto non-transparent hardware, bars or other permanent fixtures.

(2) Glass doors shall be constructed of safety glass of the laminated or tempered type conforming to CAN2-12.1-M, "Glass, Safety, Tempered or Laminated" or wired glass conforming to CAN2-12.11-M, "Glass, Wired, Safety".

(3) Except as provided in Sentence (4), transparent panels used in an *access to exit* which because of their physical configuration or design could be mistaken as a *means of egress* shall be made inaccessible by barriers or railings.

(4) Sliding glass *partitions* which separate a *public corridor* or mall from an adjacent *occupancy* and which are intended to be open during normal working hours need not conform to Sentences (1) and (3), except that such *partitions* shall be suitably marked to indicate their existence and position.

(5) Glass in doors and side lights that could be mistaken for doors within or at the entrances to *dwelling units* and in public areas shall conform to the requirements in Article 9.6.5.2.

(6) Windows in public areas that extend to less than 1 m from the floor and are located above the second storey in *buildings of residential occupancy* shall be protected by barriers or railings to not less than 1 m above the floor, or the windows shall be non-openable and designed to withstand the lateral design loads for balcony guards in Article 4.1.10.1.

### 3.3.1.19. Exhaust Ventilation

(1) Every *building* or part of a *building* in which there may be or may develop, by reason of use or *occupancy*, dust, fumes, gases, vapour or other various impurities or contaminants that may create a fire or explosion hazard, shall be provided with an exhaust ventilation system designed in conformance with the appropriate requirements of Part 6.

(2) When substances or conditions that may create an explosion hazard are present as a result of the principal use of a *building* space, such space shall be provided with explosion relief devices, vents or other protective measures in conformance with Subsection 6.2.2.

**3.3.1.20. Janitors' Rooms.** A room or space for the storage of janitorial supplies shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h, except that the *fire-resistance rating* is permitted to be not less than 45 min if the *fire-resistance rating* of the floor assembly of the room or space is permitted to be less than 1 h.

**3.3.1.21. Posts or Turnstiles.** In a *mercantile occupancy* no obstructions such as posts or turnstiles shall be placed so as to restrict the width of a normal *means of egress* from a *floor area* or part of a *floor area* to less than 750 mm unless an alternative *means of egress* is provided adjacent to and is plainly visible from the restricted egress.

**3.3.1.22. Signs in Service Spaces.** Illuminated signs conforming to Sentences 3.4.5.1.(3) and (5) shall be provided to indicate the direction to egress points in a *service space* referred to in Sentence 3.2.1.1.(7).

### 3.3.2. Assembly Occupancy

**3.3.2.1. Scope.** This Subsection applies to *floor areas* or parts thereof used or intended for use as *assembly occupancies*.

#### 3.3.2.2. Fire Separations

(1) The seating area of a Group A, Division 1 *occupancy* shall be separated from adjacent *occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 1 h where the *occupant load* in the seating area exceeds 200 persons, except that a *fire separation* having a *fire-resistance rating* of not less than 45 min is permitted to be used where the floor assembly is not required to have a *fire-resistance rating* of more than 45 min.

(2) Where usable space exists under tiers of seats in arena type *buildings*, a *fire-separation* with a *fire-resistance rating* of not less than 45 min shall be provided between such space and the seats or the space shall be *sprinklered*.

**3.3.2.3. Fixed Seats**

(1) Except for bench-type seats as provided in Articles 3.3.2.7., 3.3.2.9. and 3.3.2.10., in places of assembly with fixed seats, such seats shall be

- (a) attached or secured to the floor, platform or platform riser,
- (b) provided with arms and back, and
- (c) arranged in rows having an unobstructed passage of not less than 400 mm measured horizontally between plumb lines from the backs of the seats in one row and the edges of the furthest forward projection of the seats in the next row in the unoccupied position.

(2) Except as provided in Sentence (3), aisles on the main floor and in balconies shall be located so that there are not more than 7 seats between any seat and the nearest aisle.

(3) The requirements of Sentence (2) do not apply where

- (a) egress doorways are provided to serve both ends of rows of seats,
- (b) each doorway in Clause (a) serves not more than 3 rows of seats, and
- (c) each row contains not more than 100 seats.

(4) Seating arrangements that do not conform to the requirements of Sentences (2) or (3) may be permitted provided the standard of safety is not reduced and the time required for egress is not increased.

**3.3.2.4. Aisles**

(1) Except as required in Articles 3.3.2.7., 3.3.2.9. and 3.3.2.10., aisles leading to *exits* shall be provided in places of assembly which contain fixed seats in conformance with Sentences (2) to (10).

(2) The minimum clear width of aisles shall be not less than 1 100 mm, except that the width is permitted to be reduced to not less than

- (a) 750 mm when serving not more than 60 seats, and
- (b) 900 mm when serving seats on 1 side only.

(3) Except in the case of bleacher seats, the minimum clear width of aisles referred to in Sentence (2) shall be measured at the point farthest from an *exit*, cross aisle or foyer and shall be increased in width 25 mm for each metre of distance toward the *exit*, cross aisle or foyer.

(4) Aisles shall terminate in a cross aisle, foyer or *exit*, and the width of such cross aisle, foyer or *exit* shall be not less than the required width of the widest aisle plus 50 per cent of the total required width of the remaining aisles that it serves.

(5) Dead end aisles shall be not more than 6 m in length.

(6) The length of travel to an *exit* door by any aisle shall not be more than 45 m.

(7) Side aisles shall be not less than 1 100 mm wide when seating is provided in conformance with Sentence 3.3.2.3.(3).

(8) The floor of every aisle shall have a gradient of not more than 1 in 8.

(9) Steps shall not be placed in any aisle unless the gradient is more than 1 in 8 and

- (a) the passageway between rows of seats is level at right angles to the line of travel,
- (b) the riser height is not less than 110 mm,
- (c) the riser height is not more than 200 mm,
- (d) where variations in riser height occur

- (i) the heights of adjacent risers do not vary more than 6 mm, and

- (ii) treads or any part of a platform extend not less than 430 mm,

- (e) treads have a run of not less than 230 mm exclusive of nosing and a tread width of not less than 250 mm,

- (f) aisle platforms that extend not less than 430 mm in the direction of *exit* travel slope not more than 1 in 50,

- (g) an unobstructed platform not less than 800 mm square is provided adjacent to an aisle where a step is used at the entry to a row of seats,
- (h) the location of every riser is made apparent from both directions of travel by strategically placed lighting or contrasting marking stripes,
- (i) the steps extend to the adjacent rows of seats in a manner that will not create a hazard from tripping, and
- (j) the finish of treads and platforms conforms to Sentence 3.4.6.1.(1).

(10) Except as provided in Sentence 3.3.2.3.(3), aisles shall be located so that there are not more than 7 seats with backs or 20 seats without backs between every seat and the nearest aisle.

### 3.3.2.5. Corridors

(1) Corridors used by the public in *assembly occupancies* as *access to exits* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that

- (a) the *fire-resistance rating* need not be more than 45 min if the *fire-resistance rating* of the floor assembly is not required to be more than 45 min,
- (b) no *fire-resistance rating* is required if the *floor area* is *sprinklered*, and
- (c) no *fire separation* is required for corridors where the distance from any point in the *floor area* to an *exit* measured along the path of *exit* travel does not exceed the travel distances in Article 3.4.2.5.

**3.3.2.6. Doors.** Every door equipped with a latching mechanism in an *access to exit* from a room or *suite* of Group A *occupancy* containing an *occupant load* of more than 100 persons shall be equipped with a device that will release the latch and allow the door to swing wide open when a force of 90 N is applied to the device in the direction of travel to the *exit*.

### 3.3.2.7. Fixed Bench-Type Seats without Arms

(1) Where fixed bench-type seats without arms are provided, the seat width per person shall be assumed to be 450 mm.

(2) The centre-to-centre spacing between rows of bench-type seats shall be not less than 760 mm where back rests are provided, and not less than 550 mm where back rests are not provided.

(3) There shall be a space of not less than 300 mm between the back of each seat and the front of the seat immediately behind it.

### 3.3.2.8. Guards

(1) Except as required in Sentences (2) to (4) for bleacher seats, *guards* shall be installed in outdoor and indoor places of assembly with fixed seats so that

- (a) at the fascia of every box, balcony or gallery where the seats extend to the edge, the height of *guards* is not less than 760 mm in front of the seats and not less than 920 mm when located at the end of aisles or at the foot of steps,
- (b) the height of *guards* along every cross aisle other than those adjacent to the fascia of every box, balcony or gallery is not less than 660 mm, except that such *guards* need not be provided where the backs of the seats along the front side of the aisle are not less than 600 mm above the floor of the aisle, and
- (c) where the seating is arranged in successive tiers and the height of rise between platforms is more than 450 mm, the height of *guards* is not less than 660 mm along the entire row of seats at the edge of the platform.

(2) The backs and ends of bleacher seats more than 1.2 m above the ground or floor that are not adjacent to a wall shall be protected with a *guard*

- (a) not less than 1 070 mm high above an adjacent aisle surface or foot rest, and
- (b) not less than 920 mm high above the centre of an adjacent seat board.

(3) If the front of a bleacher is more than 600 mm above the ground or floor, it shall be protected with a *guard* not less than 840 mm high above the front foot rest.

(4) The size of any opening in a *guard* required in Sentences (2) and (3) shall be such as to prevent the passage of a spherical object more than 300 mm in size.



**3.3.2.9. Outdoor Places of Assembly**

- (1) Any Group A, Division 4 *occupancy* and each tier or balcony thereof that has a capacity of more than
  - (a) 1 000 persons shall have not less than 3 separate *exits*, or
  - (b) 4 000 persons shall have not less than 4 separate *exits*.
- (2) In every Group A, Division 4 *occupancy*, every seat shall be located so that the travel distance is not more than 45 m measured along the path of travel from the seat to
  - (a) the ground,
  - (b) an *exit*,
  - (c) an opening to a passageway leading from the seating area, or
  - (d) an opening through the seating deck structure such as a portal or vomitory.
- (3) *Exits* from outdoor stadia or grandstands shall be located not more than 25 m apart.
- (4) The capacity of *means of egress* for Group A, Division 4 *occupancies* shall conform to the requirements of Sentence 3.4.3.5.(3).
- (5) Aisles in Group A, Division 4 *occupancies*
  - (a) shall be located so that there are not more than 20 seats between any seat and the nearest aisle,
  - (b) shall be not less than 1 200 mm wide, except that an aisle serving less than 60 persons is permitted to be 750 mm wide, and
  - (c) shall not have steps unless the gradient of the aisle exceeds 1 in 8.
- (6) Except as provided in Sentences 3.3.2.10.(1) and (2), where steps are provided in aisles, such steps shall
  - (a) extend the full width of the aisles,
  - (b) have risers not more than 230 mm high, and
  - (c) have treads with a run of not less than 250 mm.

**3.3.2.10. Bleachers**

- (1) Where steps are provided in aisles of bleachers of the telescopic type, such steps shall
  - (a) have risers not more than 250 mm, and
  - (b) have treads with a run of not less than 280 mm.
- (2) When the vertical distance between seating platforms in bleachers is more than 280 mm, an intermediate step shall be provided the full width of the aisle and proportioned to provide 2 equal risers between platforms and, when the vertical distance between seating platforms is more than 450 mm, 2 intermediate steps shall be provided the full width of the aisle so that there are 3 equal risers between platforms.
- (3) Where the passageway between rows of seats is not a closed deck, footboards shall be provided so that
  - (a) the total width of the footboards shall be not less than three quarters of the centre-to-centre spacing between rows of seats, and
  - (b) the spacing between footboard members shall be not more than 25 mm.

**3.3.2.11. Libraries**

- (1) Where a library book storage room, that is not normally accessible to the public, is more than 250 m<sup>2</sup> in area, or where the book stacks in such storage room are more than 10 m high or penetrate more than 1 *storey*
  - (a) the book storage room shall be separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* of not less than 2 h, or
  - (b) the book storage room shall be *sprinklered*.
- (2) Open book shelves are permitted above and below a *mezzanine* floor in a library *building* provided the height of such book shelves is not more than 2.1 m or 75 per cent of the floor-to-ceiling height of the space above or below the *mezzanine* floor assembly.

**3.3.2.12. Bowling Alleys**

(1) Any portion of a *building* in which 3 or more bowling lanes are located shall be separated from other *occupancies* by a *fire separation* with a *fire-resistance rating* of not less than 1 h.

(2) Subsidiary *occupancies* such as offices, cocktail lounges and lunch counters operated in connection with 3 or more bowling lanes shall be separated by a *fire separation* with a *fire-resistance rating* of not less than 1 h where the combined area of these subsidiary *occupancies* is more than 150 m<sup>2</sup>.

**3.3.2.13. Stages for Theatrical Performances**

(1) *Stages* for theatrical performances and ancillary spaces, such as workshops, dressing rooms and storage areas, shall be *sprinklered*.

(2) A *fire separation* with a *fire-resistance rating* of not less than 1 h shall be provided between every *stage* for theatrical performances and ancillary spaces, such as workshops, dressing rooms and storage areas.

(3) Every *stage* for theatrical performances and ancillary spaces, such as workshops, dressing rooms, and storage areas, shall be separated from the seating space by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except for a proscenium opening which shall be protected with

- (a) a sprinkler deluge system conforming to the requirements of paragraph 4-4.20 of NFPA 13 "Standard for the Installation of Sprinkler Systems",
- (b) an unframed fire curtain when the opening is not more than 20 m wide, or
- (c) a semi-rigid fire curtain when the opening is more than 20 m wide.

(4) Every fire curtain as required by Sentence (3) shall be designed to close

- (a) automatically by heat-actuated devices,
- (b) automatically upon the actuation of the sprinkler system,
- (c) automatically upon actuation of the fire alarm system, and
- (d) manually by remote control devices located at the curtain control panel and at each side of the *stage*.

(5) Not less than 2 vents for the purpose of venting fire and smoke to the outside of a *building* shall be provided above every *stage* designed for theatrical performances and shall

- (a) have an aggregate area of not less than one eighth of the area of the *stage* behind the proscenium opening, and
- (b) be arranged to open automatically by means of
  - (i) heat-actuated devices, or
  - (ii) actuation of the sprinkler system.

**3.3.3. Institutional Occupancy**

**3.3.3.1. Scope.** This Subsection applies to *floor areas* or parts thereof used or intended for use as *institutional occupancies*.

**3.3.3.2. Separations between Institutional Occupancies and Repair Garages.** The *fire separation* required between an *institutional occupancy* and a *repair garage* shall have no openings.

**3.3.3.3. Corridors**

(1) Corridors used by the public or serving patients shall have no dead end portions unless the area served by the dead end has a second and separate *means of egress*.

(2) Every corridor serving patients shall be at least 2 400 mm wide.

(3) Paired doors in corridors described in Sentence (2) shall

- (a) swing in opposite directions, the right hand door swinging in the direction of travel, and
- (b) be not less than 1 100 mm wide.

**3.3.3.4. Separation of Rooms.** Except as permitted in Sentence 3.3.3.6.(2) and Article 3.3.3.7., sleeping rooms shall be separated from adjacent rooms by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

except that the *fire-resistance rating* need not be more than 45 min where the floor assembly is not required to be more than 45 min.

**3.3.3.5. Doorway Width.** The minimum clear width of doorways serving patients shall be 1 050 mm.

**3.3.3.6. Unsprinklered Hospitals and Nursing Homes**

(1) Except as provided in Article 3.3.3.7., *floor areas* containing sleeping rooms in hospitals and nursing homes shall conform to Sentences (2) to (11).

(2) Where 2 or more intercommunicating rooms such as patients' sleeping rooms and adjacent bathrooms are provided, the *fire separation* required in Article 3.3.3.4. does not apply to the wall between the intercommunicating rooms provided the total number of patients served by the intercommunicating rooms is not more than 5.

(3) Corridors used by the public or serving patients' sleeping rooms in hospitals and nursing homes shall be separated from the adjacent rooms or spaces by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that the *fire-resistance rating* need not be more than 45 min where the floor assembly is not required to be more than 45 min.

(4) Corridors referred to in Sentence (3) shall contain no *occupancy* other than for nursing stations and related spaces not normally used by patients.

(5) The requirement for labels in Sentence 3.1.8.5.(2) and latches in Article 3.1.8.13. is permitted to be waived for doors between patients' sleeping rooms and corridors provided the doors are equipped with roller latches.

(6) Except as provided in Sentence (7), every *floor area* used or intended to be used for patients in a hospital or nursing home shall be divided into 2 or more zones, separated by a *fire separation*, in such a manner that the occupants in every zone have access to 2 *exits* either directly or through adjacent zones.

(7) The *floor area* on either side of a *horizontal exit* conforming to Article 3.4.6.9. is permitted to be considered as a zone in applying the requirements of this Article.

(8) *Fire separations* between zones referred to in Sentence (6) shall have a *fire-resistance rating* of not less than 1 h, except that a *fire separation* with a *fire-resistance rating* of not less than 45 min is permitted where the *fire-resistance rating* of the floor assembly is not required to be more than 45 min.

(9) Doors acting as *closures* in *fire separations* between zones in Sentence (6) shall be weatherstripped or otherwise designed and installed to retard the passage of smoke.

(10) Every zone referred to in Sentence (6) shall accommodate, in addition to its own occupants, the occupants of the largest adjacent zone based on a clear floor space of 2.5 m<sup>2</sup> per patient in the adjacent zone.

(11) The travel distance from any point within each zone referred to in Sentence (6) to an adjacent zone shall not exceed 30 m.

**3.3.3.7. Sprinklered Hospitals and Nursing Homes**

(1) *Floor areas* containing patients' sleeping rooms in hospitals and nursing homes need not conform to Articles 3.3.3.4. and 3.3.3.6. provided the *building* is *sprinklered* and the *floor areas* conform to Sentences (2) to (10).

(2) Except as provided in Sentence (3), *floor areas* containing patients' sleeping rooms in hospitals and nursing homes shall be divided into not less than 2 *fire compartments* not more than 1 000 m<sup>2</sup> in area.

(3) The *floor area* on either side of a *horizontal exit* conforming to Article 3.4.6.9. is permitted to be considered as a *fire compartment* in applying the requirements of this Article.

(4) *Fire separations* separating *fire compartments* required in Sentence (2) shall have a *fire-resistance rating* of not less than 1 h, except that the *fire-resistance rating* need not be more than 45 min where the floor assembly is not required to be more than 45 min.

(5) Doors serving as *closures* in *fire separations* between *fire compartments* referred to in Sentence (2) shall be weatherstripped or otherwise designed and installed to retard the passage of smoke.

(6) The travel distance from any point within each *fire compartment* referred to in Sentence (2) to a door referred to in Sentence (5) shall be not more than 45 m.

(7) Each *fire compartment* referred to in Sentence (2) shall be capable of accommodating, in addition to its own occupants, the occupants of the largest adjacent *fire compartment* based on a clear floor space of 2.5 m<sup>2</sup> per patient in the adjacent *fire compartment*.



(8) Except as permitted in Sentence (9), walls between patients' sleeping rooms and adjacent rooms and walls between corridors serving patients' sleeping rooms and adjacent rooms within a *fire compartment* referred to in Sentence (2) shall be constructed as *fire separations*.

(9) Doors in *fire separations* required in Sentence (8) are permitted to be equipped with roller latches.

(10) Doors in *fire separations* required in Sentence (8) shall not contain any grilles, louvres or other openings.

### 3.3.3.8. Areas of Refuge

(1) Compartments containing rooms such as operating rooms, recovery rooms, delivery rooms and intensive care units, from which it is impracticable to move patients in an emergency, shall be

- (a) separated from adjacent spaces by *fire separations* having a *fire-resistance rating* of not less than 1 h, and
- (b) provided with a mechanical air supply so that during a period of 2 h after the start of a fire in another space, such compartments will not contain more than 1 per cent by volume of contaminated air from the fire area.

### 3.3.3.9. Contained Use Areas

(1) A *contained use area* shall conform to Sentences (2) to (5).

(2) A *contained use area* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

(3) Except as permitted in Sentence (5), a *contained use area* shall be *sprinklered*.

(4) The actuation of the sprinkler system required by Sentence (3) shall initiate an *alert signal* or an *alarm signal* on the fire alarm system.

(5) A *contained use area* is not required to be *sprinklered* as required by Sentence (3) if

- (a) the *building* is designed so that during a period of 2 h after the start of a fire in the *contained use area*, other *fire compartments* will not contain more than 1 per cent by volume of contaminated air from the *contained use area*,
- (b) the *building* is designed so that during a period of 2 h after the start of a fire in another part of the *building*, the *contained use area* will not contain more than 1 per cent by volume of contaminated air from the fire in the other part of the *building*,
- (c) all doors are designed to be remotely released in conformance with Sentence 3.3.1.12.(2), and
- (d) the *contained use area* does not contain any rooms lined with *combustible padding*.

### 3.3.3.10. Elevator Required

(1) If patient sleeping rooms or patient services are provided on more than one floor level and the floor levels are not connected by ramps conforming to Article 3.7.3.4., such floor levels shall be served by at least one elevator that

- (a) is large enough to accommodate a stretcher in a horizontal position, and
- (b) conforms to Appendix E of CSA-B44 "Safety Code for Elevators, Escalators, Dumbwaiters, Moving Walks and Freight Platforms Lifts".

3.3.3.11. **Handrails.** Corridors and ramps used by residents in a nursing home shall be equipped with handrails on each side conforming to Sentences 3.4.6.4.(3), (4), (6), (7) and (8).

### 3.3.4. Residential Occupancy

3.3.4.1. **Scope.** This Subsection applies to *floor areas* or parts thereof used or intended for use as *residential occupancies*.

#### 3.3.4.2. Fire Separations

(1) *Suites of residential occupancy* shall be separated from each other and the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that

- (a) a *fire-resistance rating* of not less than 45 min is permitted where the *fire-resistance rating* of the floor

assembly above the *floor area*, or the floor assembly below the *floor area* if there is no floor assembly above, is not required to be more 45 min, and

- (b) no *fire separation* is required for a floor assembly conforming to Sentence 3.2.2.5.(2).

(2) Floor assemblies within a *dwelling unit* need not be constructed as *fire separations* provided the distance between the lowest floor level and the uppermost floor level within the *dwelling unit* is not more than 6 m and provided that the *dwelling unit* is separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than

- (a) 45 min where the *building* is *sprinklered* and is not more than 3 storeys in *building height*,
- (b) 1 h where the *building* is *sprinklered* or is not more than 6 storeys in *building height*, and
- (c) 2 h where the *building* is not *sprinklered* and is more than 6 storeys in *building height*.

### 3.3.4.3. Storage Rooms

(1) Storage rooms not contained within a *suite*, for the use of tenants in *residential occupancies*, shall be *sprinklered* and separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that a *fire-resistance rating* of not less than 45 min is permitted where the *fire-resistance rating* of the floor assembly is not required to be more than 45 min.

(2) In a *building* containing a *hotel*, unsprinklered storage rooms and closets shall be separated, or shall be contained within a *suite* that is separated, from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 45 min.

### 3.3.4.4. Egress from Dwelling Units

(1) Single *storey dwelling units* in apartment *buildings* need not lead to a *public corridor* or exterior passageway on the same *storey* provided the *dwelling units* are served by private stairways leading directly to a public *access to exit* on the *storey*

- (a) immediately above, and
- (b) immediately below.

(2) Except as provided in Sentences (3) and (4), every *dwelling unit* containing more than 1 *storey* shall have an *exit* door or an egress door opening directly into a public *access to exit* from the uppermost *storey* and from the lowest *storey* of the *dwelling unit* so that the floor level of each such *storey* is served by an *exit* or egress door located not more than 1.5 m above or below the floor level.

(3) A single *exit* is permitted from a *dwelling unit* provided the *exit* is an exterior doorway not more than 1.5 m above adjacent ground level and

- (a) it is not necessary to travel up or down more than 1 *storey* to reach the *exit* door, or
- (b) the uppermost floor level opens to a balcony not more than 6 m above adjacent ground level.

(4) An egress door from either the uppermost *storey* or the lowest *storey* in a *dwelling unit*, as required in Sentence (2), need not be provided

- (a) where that *storey* is served by a stairway that
  - (i) leads to a public *access to exit*,
  - (ii) has no direct access to any other *storey* in the *dwelling unit*, and
  - (iii) is separated from the other *storeys* in the *dwelling unit* by a *fire separation* having a *fire-resistance rating* of not less than 45 min, or
- (b) where a *smoke alarm* conforming to Article 3.2.4.21. is installed
  - (i) on the uppermost *storey* of a *dwelling unit* having not more than 2 *storeys* above the first *storey* of the *building*, or
  - (ii) on each *storey* of the *dwelling unit* provided it is not necessary to travel either more than 18 m, or more than 1 *storey* up or down to reach the egress door.

(5) In *buildings* of *residential occupancy* not more than 3 *storeys* in *building height*, a doorway from a *dwelling unit* is permitted to open directly into an *exit* stairway provided such *dwelling unit* has a second and separate *means of egress*.

(6) A doorway from a *dwelling unit* may open onto an interior corridor served by a single *exit*, or an exterior balcony served by a single *exit* stairway, or an exterior passageway served by a single *exit* stairway provided each *dwelling unit* has a second and separate *means of egress*.

**3.3.4.5. Automatic Locking Prohibition.** Except for *hotels*, a door opening onto a *public corridor* which provides *access to exit* from a *suite* shall be designed not to lock automatically.

**3.3.4.6. Sound Transmission.** *Dwelling units* shall be designed and constructed to restrict sound transmission in conformance with Article 9.11.2.1.

**3.3.4.7. Balcony Guards for Residential Occupancies.** *Guards* around exterior balconies in *buildings* of *residential occupancy* shall be designed so that no member, attachment or opening located between 100 mm and 900 mm above the balcony will facilitate climbing.

**3.3.4.8. Stairs, Handrails and Guards for Dwelling Units.** Stairs, handrails and *guards* within *dwelling units* shall be provided in conformance with the requirements in Section 9.8.

### 3.3.5. Industrial Occupancy

**3.3.5.1. Scope.** This Subsection applies to *floor areas* or parts thereof used or intended for use as *industrial occupancies*.

**3.3.5.2. Fire Extinguishing Systems.** In addition to other requirements in this Code for the installation of automatic fire extinguishing systems, in a Group F, Division 1 *major occupancy*, an appropriate automatic fire extinguishing system shall be installed in every *floor area* to provide protection against the nature of the risk in conformance with the provisions of the Ontario Fire Code made under the Fire Marshals Act, or in the absence of requirements pertinent to the specific risk in the Ontario Fire Code, with the provisions of the ACNBC National Fire Code of Canada 1990.

### 3.3.5.3. Basements

(1) *Basements* shall not be used for the storage, manufacture or handling of volatile solids, liquids or gases that generate explosive air-vapour mixtures or for processes that involve explosive dusts.

(2) Entrances and *exits* to *basements* and rooms containing *building services* in a *building* where the storage, manufacture or handling of volatile materials can generate explosive air-vapour mixtures or where processes that produce explosive dusts can occur, shall be separate from the remainder of the *building*.

(3) *Basements* and rooms referred to in Sentence (2) shall be separated from the remainder of the *building* with a vapour-tight separation.

**3.3.5.4. Cutting and Welding.** Where a room in other than a Group F *major occupancy* is used for cutting and welding operations, it shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h, except that this requirement does not apply to a room that is protected by an automatic fire extinguishing system.

### 3.3.5.5. Repair and Storage Garages

(1) Where access is provided from a *storage garage* to a stair tower or elevator serving *occupancies* above the level of the *storage garage*, such access shall be through a vestibule conforming to Sentence 3.3.5.8.(3).

(2) Treads and landings in interior stairs that extend to the roof of a *storage garage* shall be designed to be free of accumulations of ice and snow.

(3) Mechanical *storage garages* of not more than 4 *storeys* in *building height*, where no persons other than parking attendants are permitted above the *street* floor level, need not have a *fire separation* between the *exits* and the remainder of the *building*.

(4) Every garage shall be provided with natural or mechanical ventilation in conformance with the requirements of Subsection 6.2.2. to prevent excessive accumulation of carbon monoxide, exhaust fumes or flammable and toxic vapours.

(5) The clear height in a *storage garage* shall be not less than 2 m.

(6) A continuous curb not less than 150 mm high and a *guard* not less than 1 070 mm high shall be provided at every garage floor opening and around the perimeter of every floor where the exterior walls are omitted.

(7) Only 2 *exits* located remote from each other need be provided in *storage garages* conforming to Article 3.2.2.60. provided persons other than parking attendants are not permitted above the *street* floor level.

(8) Except for *open-air storeys*, every *storey* of a *storage garage* or *repair garage* located below *grade* shall be *sprinklered*.



**3.3.5.6. Repair Garage Separation.** A *repair garage* or a *repair garage* and any ancillary spaces serving it, including waiting rooms, reception rooms, tool and parts storage areas and supervisory office space, shall be separated from other *occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

**3.3.5.7. Storage Garage Separation.** A *storage garage* shall be separated from other *occupancies* by a *fire separation* with a *fire-resistance rating* of not less than 1.5 h.

#### **3.3.5.8. Vestibules**

(1) Where access is provided through a *fire separation* between a *storage garage* and a Group A, Division 1 or Group B *occupancy*, such access shall be through a vestibule conforming to Sentence (3).

(2) In *buildings* more than 3 *storeys* in *building height*, where access is provided through a *fire separation* between a *storage garage* and a Group A, Division 2, 3 or 4, or a Group C *occupancy*, such access shall be through a vestibule conforming to Sentence (3).

(3) Where access is provided through a vestibule, as required in Sentences (1), (2) and 3.3.5.5.(1), the vestibule shall

- (a) be not less than 1.8 m long,
- (b) be naturally ventilated to outside air by a vent that has an unobstructed area of not less than 0.1 m<sup>2</sup> for each door that opens into the vestibule but not less than 0.4 m<sup>2</sup>, or be mechanically ventilated at a rate of 14 m<sup>3</sup>/h for each square metre of vestibule floor surface area, and
- (c) have the openings between the vestibule and an adjoining *occupancy* provided with self-closing doors having no hold-open devices.

#### **3.3.5.9.**

(1) Reserved.

(2) Reserved.

**3.3.5.10. Toe-Boards Required.** Where tools or other objects could fall from the floor of an upper level to a lower level in a room or space intended for use as a Group F *occupancy*, the edge of the floor at the upper level shall be provided with a toe-board extending from the floor surface to a height at least 125 mm above the floor surface.

### **Section 3.4 Requirements for Exits**

#### **3.4.1. General Requirements**

**3.4.1.1. Scope.** *Exit* facilities complying with this Section shall be provided from every *floor area* which is intended for *occupancy*.

#### **3.4.1.2. Separation of Exits**

(1) Except as permitted by the requirements of Sentence (2), where more than 1 *exit* is required from a *floor area*, each *exit* shall be separate from every other *exit* leading from that *floor area*.

(2) Where more than 2 *exits* are provided from a *floor area*, *exits* are permitted to converge in conformance with Sentence 3.4.3.2.(2), provided the cumulative capacity of the converging *exits* does not contribute more than 50 per cent of the total required *exit* width for the *floor area*.

**3.4.1.3. Access to Exit.** *Access to exits* shall conform to Section 3.3.

#### **3.4.1.4. Types of Exit**

(1) Subject to the requirements of this Section, an *exit* from any *floor area* shall be one of the following used singly or in combination

- (a) an exterior doorway,
- (b) an exterior passageway,
- (c) an exterior ramp,
- (d) an exterior stairway,
- (e) a fire escape (as described in Subsection 3.4.7.),
- (f) a *horizontal exit*,

- (g) an interior passageway,
- (h) an interior ramp, or
- (i) an interior stairway.

#### 3.4.1.5. Exterior Exit Passageways.

- (1) Access to exterior *exit* passageways from a *floor area* shall be through *exit* doors at floor level.
- (2) Every exterior *exit* passageway which has a drop of more than 500 mm on any side shall have *guards* on the open sides not less than 1 070 mm high.

#### 3.4.1.6. Restricted Use of Horizontal Exits

- (1) Except as provided in Sentence (2), *horizontal exits* shall not comprise more than one half of the required number of *exits* from any *floor area*.

- (2) In a hospital or nursing home, *horizontal exits* serving patients' sleeping rooms shall not comprise more than two thirds of the required number of *exits* from any *floor area*.

**3.4.1.7. Slide Escapes.** A slide escape shall not be erected on any *building* as a required *exit*, but is permitted to be provided as an additional egress facility where unusual hazards may exist.

**3.4.1.8. Transparent Doors and Panels.** Glass and transparent panels in an *exit* shall conform to the appropriate requirements in Article 3.3.1.18. for glass and transparent panels in an *access to exit*.

**3.4.1.9. Mirrors near Exits.** No mirrors shall be placed in or adjacent to any *exit* in such a manner as to confuse the direction of *exit*.

**3.4.1.10. Exterior Stairway for Nursing Home.** No open exterior stairway shall serve as a *means of egress* for residents above the second floor of a nursing home.

### 3.4.2. Number and Location of Exits from Floor Areas

#### 3.4.2.1. Minimum Number of Exits

- (1) Except as provided in Sentences (2) to (4), and (6), every *floor area* as regulated in Article 3.4.1.1. shall be served by not less than 2 *exits*.

- (2) In *buildings* not more than 2 *storeys* in *building height*, a *floor area* is permitted to be served by one *exit* provided the *floor area* and travel distance requirements conform to Table 3.4.2.A. and the total *occupant load* served by the *exit* is not more than 60.

**Table 3.4.2.A.**  
Forming Part of Sentence 3.4.2.1.(2)

<i>Occupancy of Floor Area</i>	<i>Maximum Floor Area, m<sup>2</sup></i>	<i>Maximum Travel Distance, m</i>
Group A	150	15
Group B	75	10
Group C	125	25
Group D	200	25
Group E	200	25
Group F, Division 2	200	25
Group F, Division 3	200	25
Column 1	2	3

- (3) Except as provided in Sentence (4), where a single *exit* is permitted in Sentence (2) from a *floor area* classified as Group B or Group C *occupancy*, the *exit* shall be an exterior doorway not more than 1.5 m above adjacent ground level.

- (4) A *floor area* containing only *dwelling units* having *access to exit* conforming to Sentences 3.3.4.4.(1) to (4) need not comply with Sentence (1).

- (5) *Exits* are not required directly from roof top enclosures that are provided with *access to exit* in conformance with Sentences 3.3.1.3.(5) and (6).

- (6) Every *assembly occupancy* in a *building* containing a *hotel* shall be provided with not less than

- (a) 3 independent well-separated *exits* from a *floor area* where the *occupant load* is more than 600 persons, and
- (b) 4 independent well-separated *exits* from a *floor area* where the *occupant load* is more than 1000 persons.

#### 3.4.2.2. Mezzanine Exiting

(1) Except as permitted in Sentence (2), *mezzanines* shall be provided with *exits* on the same basis as required for *floor areas* in this Section.

(2) A *mezzanine* need not conform to Sentence (1) where

- (a) it is not required to terminate at a vertical *fire separation* in Subsection 3.2.8., or
- (b) if it is required to terminate at a vertical *fire separation* in Subsection 3.2.8., the area of the *mezzanine* is not more than the area limits for rooms and *suites* in Table 3.3.1.A.

#### 3.4.2.3. Distance between Exits

(1) Except where a *floor area* is divided by a *fire separation* so that it is necessary to pass through it to travel from one *exit* to another *exit*, the least distance between 2 required *exits* from a *floor area* shall be

- (a) one half the maximum diagonal dimension of the *floor area*, but need not be more than 9 m for a *floor area* having a *public corridor*, or
- (b) one half the maximum diagonal dimension of the *floor area*, but not less than 9 m for all other *floor areas*.

(2) The minimum distance between *exits* referred to in Sentence (1) shall be the shortest distance that smoke would have to travel between the required *exits*, assuming that the smoke will not penetrate an intervening *fire separation*.

#### 3.4.2.4. Travel Distance

(1) Except as provided in Sentence (2), for the purposes of this Subsection, travel distance means the distance from any point in the *floor area* to an *exit* measured along the path of *exit* travel.

(2) The travel distance may be measured from an egress door of a room or *suite* to the nearest *exit* where

- (a) the *public corridor* or a corridor used by the public which serves the room or *suite* is separated from the remainder of the *floor area* by a *fire separation*, or
- (b) the room or *suite* is served by an exterior passageway.

(3) Travel distance to an *exit* shall be not more than 50 m from any point in a *service space* referred to in Sentence 3.2.1.1.(7).

#### 3.4.2.5. Location of Exits

(1) Except as provided in Sentences (2), (3) and 3.3.2.4.(6), where more than one *exit* is required from a *floor area*, such *exits* shall be located so that the travel distance to not less than one *exit* as described in Article 3.4.2.4. shall be not more than

- (a) 25 m in any Group F, Division 1 *occupancy*,
- (b) 45 m in any *sprinklered floor area* that contains an *occupancy* other than Group F, Division 1,
- (c) 40 m in any Group D *occupancy*,
- (d) 105 m in any *floor area*, served by a *public corridor*, in which rooms and *suites* are not separated from the remainder of the *floor area* by a *fire separation*, provided
  - (i) the *public corridor* has a width of not less than 9 m,
  - (ii) the ceiling height in the *public corridor* is not less than 4 m above all floor surfaces,
  - (iii) the *building* is *sprinklered*, and
  - (iv) not more than one half of the required egress doorways from a room or *suite* open into the *public corridor* when the room or *suite* is required to have more than one egress doorway,
- (e) 60 m in any *storage garage* that conforms to the requirements of Article 3.2.2.60., and



(f) 30 m in any other *occupancy*.

(2) Except for a Group F, Division 1 *occupancy*, Sentence (1) need not apply if *exits* are placed along the perimeter of the *floor area* and are not more than 60 m apart, measured along the perimeter, provided each main aisle in the *floor area* leads directly to an *exit*.

(3) Where more than one *exit* is required, every *exit* shall be considered as contributing not more than one half the required *exit* width.

(4) *Exits* shall be located and arranged so that they are clearly visible or their locations are clearly indicated and they are accessible at all times.

### 3.4.3. Width and Height of Exits

#### 3.4.3.1. Exit Width

(1) The aggregate width of required *exits* shall be not less than the value determined in conformance with Sentence (2) and Articles 3.4.3.2. and 3.4.3.5.

(2) The required width of an *exit* shall be not less than

(a) 1 100 mm for

(i) corridors and passageways,

(ii) stairs and ramps that serve more than 3 *storeys* above *grade* or more than 1 *storey* below *grade*,

(b) 900 mm for stairs and ramps that serve not more than 3 *storeys* above *grade* or not more than 1 *storey* below *grade*,

(c) 1 650 mm for stairs and ramps serving patients,

(d) 1 050 mm for doorways serving patients, and

(e) 790 mm for doorways not serving patients.

#### 3.4.3.2. Exit Width Based on Occupant Load

(1) For the purpose of determining aggregate width of required *exits*, the *occupant load* of every room or *floor area* of the *building* to be considered shall be determined in conformance with Subsection 3.1.16.

(2) Except as provided in Article 3.4.3.3., the required *exit* width shall be cumulative where 2 or more *exits* converge.

**3.4.3.3. Cumulative Exit Width.** Except as provided in Article 3.4.3.4., the required *exit* width is not required to be cumulative in an *exit* serving 2 or more *floor areas* located one above the other.

#### 3.4.3.4. Exits from Interconnected Floor Spaces

(1) The required *exit* width for an *exit* stair in an assembly hall or *theatre* serving more than one balcony level shall conform to the appropriate requirements for stairs serving *interconnected spaces* in Article 3.2.8.4.

(2) *Exit* stairs that serve *interconnected floor spaces* as provided in Articles 3.2.8.3. to 3.2.8.11. shall conform to the requirements in Article 3.2.8.4. and in this Section.

#### 3.4.3.5. Exit Capacity

(1) Except as permitted by Sentence (3), the aggregate required width of *exits* serving *floor areas* intended for Groups A, C, D, E and F *occupancies* shall be determined by multiplying the *occupant load* of the area served by

(a) 6.1 mm per person for ramps with a gradient of not more than 1 in 8, doorways, corridors and passageways, or

(b) 9.2 mm per person for ramps with a gradient of more than 1 in 8 and stairs.

(2) The aggregate required width of *exits* serving *floor areas* intended for Group B *occupancy* shall be determined by multiplying the *occupant load* of the area served by 18.4 mm per person.

(3) The required width of *means of egress* serving a Group A, Division 4 *occupancy* shall be determined by multiplying the *occupant load* of the area served by

(a) 1.8 mm per person for

- (i) aisles,
  - (ii) stairs other than *exit* stairs, and
  - (iii) ramps and passageways in vomitories and *exits*, and
- (b) 2.4 mm per person for *exit* stairs.

#### 3.4.3.6. Exit Width Reduction

(1) Except as permitted by Sentences (2) to (4), no fixture, turnstile or construction shall project into or be fixed within the required width of an *exit*.

(2) *Exit* doors shall be hung so that, when open, they shall neither diminish nor obstruct the required width of the *exit* by more than 50 mm for each door leaf.

(3) Swinging doors in their swing shall not reduce the required width of *exit* stairs or landings to less than 750 mm or reduce the width of an *exit* passageway to less than the minimum required width.

(4) Handrails and construction below handrails are permitted to project into the required width of *means of egress* but the projections shall be not more than 100 mm on each side of the required width.

#### 3.4.3.7. Headroom Clearance

(1) Except as provided in Sentences (2) to (4), every *exit* shall have a headroom clearance of not less than 2 100 mm.

(2) The headroom clearance shall be not less than 2 050 mm measured vertically above,

(a) any landing, and

(b) a line drawn through the outer edges of the nosings of any stair.

(3) The headroom clearance for doorways shall be not less than 2 030 mm.

(4) No device such as a door closer shall be installed so as to reduce the headroom clearance of a doorway to less than 1 980 mm.

#### 3.4.4. Required Fire Separation for Exits

##### 3.4.4.1. Fire-Resistance Rating of Exit Separations

(1) Except as provided in Article 3.4.4.3. and Sentences (2), 3.3.5.5.(3) and 3.4.4.2.(2), every *exit* shall be separated from each adjacent *floor area* by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly above the *floor area* and, where there is no floor assembly above, not less than that required by Subsection 3.2.2. for the floor assembly below, but in no case shall the *fire-resistance rating* be less than 45 min.

(2) The *fire-resistance rating* of the *fire separation* in Sentence (1) need not be more than 2 h.

(3) Where an *exit* stair in an assembly hall or *theatre* serves more than one balcony level, the *exit* stair shall be separated from the remainder of the *building* in conformance with Sentence (1).

##### 3.4.4.2. Exits through Lobbies

(1) Except as provided in Sentence (2), an *exit* from any *floor area* above or below the *first storey* shall not lead through a lobby.

(2) Not more than 1 *exit* from a *floor area* is permitted to lead through a lobby provided

(a) the lobby floor is not more than 4.5 m above *grade*,

(b) the path of travel through the lobby to the outdoors is not more than 15 m,

(c) the adjacent rooms or premises having direct access to the lobby do not contain a Group C or F occupancy,

(d) except as required in Clause (g), the lobby is not located within an *interconnected floor space* other than as described in Sentence 3.2.8.2.(6),

(e) the lobby conforms to the requirements for *exits*, except that

(i) rooms other than *service rooms* and storage rooms may open onto the lobby,

- (ii) the *fire separation* between the lobby and a room used for the sole purpose of control and supervision of the *building* need not have a *fire resistance rating*, and
- (iii) the *fire separation* between the lobby and adjacent *occupancies* that are permitted to open onto the lobby need not have a *fire-resistance rating* when the lobby and adjacent *occupancies* are *sprinklered*,
- (f) the *fire separation* required in Sentence 3.4.4.1.(1) shall be maintained between the *exit* and the lobby, and
- (g) that if the *exit* serves a *hotel*, the lobby is not located within an *interconnected floor space*.

#### 3.4.4.3. Exterior Passageway Exceptions

(1) The requirements in Sentences 3.4.4.1.(1) and 3.2.3.13.(1) and (3) do not apply to an exterior *exit* passageway provided

- (a) not less than 50 per cent of the exterior side is open to the outdoors, and
- (b) an *exit* stair is provided at each end of the passageway.

#### 3.4.4.4. Integrity of Exits

(1) A *fire separation* that separates an *exit* from the remainder of the *building* shall have no openings except for

- (a) standpipe and sprinkler piping,
- (b) electrical wires and cables, totally enclosed *noncombustible* raceways and *noncombustible* piping that serve only the exit,
- (c) openings required by the provisions of Subsection 3.2.6.,
- (d) *exit* doorways, and
- (e) wired glass and glass block as permitted in Article 3.1.8.14.

(2) *Exit* stairways that are contiguous such as scissors stairs shall be separated from each other by a smoke-tight *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly through which they pass.

(3) *Fire separations* separating contiguous stairs described in Sentence (2) shall not be pierced by doorways, ductwork, piping or any other openings that affect the continuity of the separation.

(4) Fuel-fired appliances shall not be installed in any *exit*.

(5) An *exit* shall not be used as a *plenum* for a heating, ventilating or *air-conditioning* system.

(6) An *exit* shall be designed for no purpose other than for exiting, except that an *exit* is permitted also to be designed to serve as an access to a *floor area*.

(7) *Service rooms* and ancillary rooms, such as storage rooms, washrooms, toilet rooms and laundry rooms shall not open directly into an *exit*.

(8) *Service spaces* referred to in Sentence 3.2.1.1.(7) shall not open directly into an *exit*.

#### 3.4.5. Exit Signs

##### 3.4.5.1. Exit Signage

(1) Except as required in Sentence (7), every *exit* door other than the main entrance to a room or *building* shall have an *exit* sign placed over or adjacent to it when the *exit* serves

- (a) a *building* exceeding 2 storeys in *building height*,
- (b) a *building* having an *occupant load* greater than 150, or
- (c) a room or *floor area* that has a fire escape as part of a required *means of egress*.

(2) Except as provided in Sentence (9), every *exit* sign shall

- (a) be visible from the *exit* approach,
- (b) have the word EXIT or the words EXIT/SORTIE displayed in plain legible letters, and



(c) be designed to be illuminated continuously while the *building* is occupied.

(3) *Exit* signs shall consist of red letters on a contrasting background or a red background with contrasting letters, with the letters having a 19 mm stroke and a height of at least

(a) 114 mm when internally illuminated, and

(b) 150 mm when externally illuminated.

(4) Where illumination of an *exit* sign is provided from an electrical circuit, that circuit shall

(a) serve no equipment other than emergency equipment, and

(b) be connected to an emergency power supply as described in Sentence 3.2.7.4.(1) where emergency lighting is required in Sentence 3.2.7.3.(1).

(5) Where necessary, signs shall be provided to indicate the direction of egress in *public corridors* and passageways, and shall have the word EXIT or the words EXIT/SORTIE with a suitable arrow or pointer indicating the direction of egress, and the size of lettering shall conform to Sentence (3).

(6) Except for egress doors described in Sentence 3.3.2.3.(3) and except for the main entrance door, an *exit* sign conforming to Sentences (2), (3) and (4) shall be placed over or adjacent to every egress door from rooms with an *occupant load* of more than 60 in Group A, Division 1 *occupancies*, dance halls, licensed beverage establishments and other similar *occupancies* that, when occupied, have lighting levels below that which would provide easy identification of the egress door.

(7) In a *building* containing a *hotel*, *exit* signs shall be installed to indicate

(a) *exit* stairways and fire escapes, and

(b) *exits* from *exit* stairway enclosures and corridors to the exterior.

(8) Except for egress doors described in Sentence 3.3.2.3.(3), and except for a main entrance door, an *exit* sign conforming to Sentences (2), (3) and (4) shall be placed over every egress door from rooms with an *occupant load* of more than 60 in a *building* containing a *hotel*.

(9) If an *exit* sign having the word EXIT is installed in conformance with this Article, an additional sign displaying the word SORTIE is permitted to be installed.

**3.4.5.2. Signs for Basement Stairs and Ramps.** In *buildings* over 2 storeys in *building height*, any part of an *exit* ramp or stair that continues past an exterior *exit* door down to a *basement* shall be clearly marked by a sign indicating that it does not lead to an *exit*.

### 3.4.6. Types of Exit Facilities

#### 3.4.6.1. Slip Resistance of Stairs and Ramps

(1) Treads and landings of interior and exterior stairs and ramps accessible to the public shall have a slip-resistant finish or be provided with slip-resistant strips which extend not more than 1 mm above the surface of the tread, landing or ramp.

(2) Treads and landings of exterior *exit* stairs shall be designed to be free from ice and snow accumulation if the *exit* stairs

(a) exceed 10 m in height, or

(b) serve a *building* containing a *hotel*.

**3.4.6.2. Minimum Number of Risers.** Every flight of interior stairs shall have at least 3 risers.

#### 3.4.6.3. Landings and Maximum Vertical Rise of Stair Flights

(1) No flight of stairs shall have a vertical rise of more than 3.7 m between floors or landings, except that flights of stairs serving as *exits* in a Group B, Division 2 *occupancy* shall have a vertical rise of not more than 2.4 m between floors or landings.

(2) The length and width of landings shall be at least the width of stairways in which they occur, except that in a straight run the length of a landing need not be more than 1 100 mm.

(3) Where a doorway or stairway empties onto a ramp through a side wall, there shall be a level area extending across the full width of the ramp, and for a distance of 300 mm on either side of the wall opening, excepting one side when it abuts on an end wall.

(4) Where a door or stairway empties through an end wall onto a ramp, there shall be a level area across the full width of the ramp and along its length for at least 900 mm.

#### 3.4.6.4. Handrails

(1) Every *exit* ramp or stairway shall have a handrail on at least one side, and where 1 100 mm or more in width, shall have handrails on both sides.

(2) Where the required width of a ramp or flight of stairs exceeds 2 200 mm, one or more intermediate handrails continuous between landings shall be provided, and the number and position of these intermediate handrails shall be such that there will be not more than 1 650 mm between handrails.

(3) Handrails shall be constructed so that there will be no obstruction on or above them which will break a hand hold.

(4) Handrails on stairs and ramps shall be not less than 800 mm and not more than 920 mm high, measured vertically from a line drawn through the outside edges of the stair nosing or from the surface of the ramp, except that handrails not meeting these requirements are permitted provided they are installed in addition to the required handrail.

(5) Except as required in Sentence (9), at least one handrail shall be continuous throughout the length of a stairway including landings except where the handrail is interrupted by doorways or newels at changes in direction.

(6) Handrails shall be terminated in a manner which will not obstruct pedestrian travel or create a hazard.

(7) At least one handrail at the side of a stairway or ramp shall extend horizontally not less than 300 mm beyond the top and bottom of the stairway or ramp.

(8) A clearance of at least 40 mm shall be provided between every handrail and any wall to which it is fastened.

(9) In nursing homes and homes for the aged, continuous handrails shall be provided on both sides of a stairway throughout the length of the stairway, including landings, except where a handrail is interrupted by doorways or newels at changes in direction.

#### 3.4.6.5. Guards

(1) Every *exit* such as a ramp, stairway or passageway shall have a wall or a well-secured *guard* on each side.

(2) Except as provided in Sentence (4), the height of *guards* on *exit* stairs shall be not less than 920 mm measured vertically to the top of the *guard* from a line drawn through the outside edges of the stair nosings and 1 070 mm around landings.

(3) The height of *guards* on *exit* ramps and their landings shall be not less than 1 070 mm measured vertically to the top of the *guard* from the ramp surface.

(4) The height of *guards* of exterior stairs and landings more than 10 m above adjacent ground level shall be not less than 1 500 mm measured vertically to the top of the *guard* from a line drawn through the outside edges of the stair nosings.

(5) The size of any opening through *guards* for *exits* shall be such as to prevent the passage of a spherical object having a diameter of 100 mm in *buildings of residential occupancy* and in day care centres, nurseries, and other similar type *occupancies*, and 200 mm in *buildings of other occupancy*, except where the location and size of the openings that are more than this limit do not present a hazardous condition.

(6) Windows in *exit* stairways that extend to less than 1 070 mm above the landing shall be protected by a barrier or railing located approximately 1 070 mm above such landing, except that in *residential occupancies* such windows shall be protected in accordance with the requirements of Sentence 3.3.1.18.(6).

#### 3.4.6.6. Ramp Gradients

(1) Except as required in Section 3.7, the maximum gradient of ramps shall be

- (a) 1 in 10 in any Group A, B or C *occupancy*,
- (b) 1 in 6 in rooms or *floor areas* classified as Group E or Group F *occupancy*,
- (c) 1 in 8 from any other *floor area*, and
- (d) 1 in 10 for every exterior ramp.

**3.4.6.7. Stair Treads and Risers**

- (1) Except as otherwise permitted for fire escapes in Sentence 3.4.7.5.(1), treads in every *exit* stair shall have a run of not less than 230 mm and not more than 355 mm exclusive of nosings.
- (2) Stairs referred to in Sentence (1) shall have a rise between successive treads of not less than 125 mm and not more than 200 mm.
- (3) Treads and risers in every *exit* stair, except a fire escape stair, shall have uniform run and rise in any one flight, and shall not alter significantly in run and rise in successive flights in any stair system.
- (4) Where the run of any tread in an *exit* stair is less than 250 mm, a nosing of not less than 25 mm shall be provided beyond the face of the riser, or an equivalent back slope on the riser shall be provided.
- (5) The front edge of stair treads in *exits* and public access to *exits* shall be at right angles to the direction of *exit* travel.

**3.4.6.8. Curved Stairs**

- (1) Except as permitted in Sentence (2), tapered treads shall not be used in an *exit*.
- (2) Where a curved stair is used as an *exit*, it shall have
  - (a) a handrail on each side,
  - (b) treads with a minimum run of 240 mm exclusive of nosings,
  - (c) treads that conform to Article 3.4.6.7. where they are measured 230 mm away from the handrail at the narrow end of the tread, and
  - (d) an inside radius which is not less than twice the stair width.

**3.4.6.9. Horizontal Exits**

- (1) The *floor area* on each side of a *horizontal exit* shall be sufficient to accommodate the occupants of both *floor areas*, allowing not less than 0.5 m<sup>2</sup> of clear floor space per person, except that 1.5 m<sup>2</sup> shall be provided for each person in a wheelchair and 2.5 m<sup>2</sup> for each patient in bed.
- (2) Where vestibules, enclosed balconies or bridges are used as parts of any *horizontal exit*, their clear width shall be at least that of the *exit* doorways opening into them, except that handrails are not permitted to project into this clear width more than 100 mm.
- (3) In any *horizontal exit* where there is a difference in level between the connected *floor areas*, gradients not exceeding those specified for ramps in Article 3.4.6.6. are permitted to be used.
- (4) No stairs or steps shall be used in a *horizontal exit*.
- (5) Where 2 doors are provided in a *horizontal exit* that comprises a part of the required number of *exits* from the *floor areas* on both sides of the *exit*
  - (a) the doors shall be mounted adjacent to each other and swing in opposite directions, and
  - (b) signs shall be provided on each side of the *exit* to indicate the door that swings in the direction of travel from that side.
- (6) Where *horizontal exits* utilize bridges between *buildings* or outside balconies, such bridges or balconies shall conform to Article 3.2.3.20.
- (7) Every opening in the exterior walls of *buildings* to which such bridges or balconies are attached shall be protected, as required for openings adjacent to fire escapes in Article 3.4.7.4., except that where bridges have solid sides not less than 1.8 m high, such protection of wall openings may be omitted.

**3.4.6.10. Doors**

- (1) The distance between a stair riser and the leading edge of a door during its swing shall be not less than 300 mm.
- (2) No *exit* door shall open directly onto a step except that, where there is danger of blockage from ice or snow, an *exit* door is permitted to open onto not more than one step which shall be not more than 150 mm high.
- (3) *Exit* doors shall be clearly identifiable.



(4) Every door leaf in an *exit* doorway where more than one leaf is provided shall be not less than 600 mm wide.

**3.4.6.11. Direction of Door Swing.** Except for a door serving a single *dwelling unit*, every principal entrance door to a *building* and every *exit* door shall open in the direction of *exit* travel and shall swing on its vertical axis.

**3.4.6.12. Self-Closing Devices.** Every *exit* door that is normally required to be kept closed shall be provided with a reliable self-closing mechanism, and shall not at any time be secured in an open position except as specified in Sentence 3.1.8.12.(1).

**3.4.6.13. Sliding Doors**

(1) *Exit* doors leading directly to outdoors at ground level are permitted to be sliding doors provided they conform to Sentence 3.3.1.11.(1).

(2) An *exit* door serving a Group B, Division 1 *occupancy*, or an *impeded egress zone* in other *occupancies*, is permitted to be a sliding door that does not conform to Sentence 3.3.1.11.(1) provided it is designed to be released in conformance with Article 3.3.1.12.

**3.4.6.14. Revolving Doors**

(1) Except as permitted by Sentence (3), where revolving doors are used, they shall

- (a) be collapsible,
- (b) have hinged doors providing equivalent exiting capacity located adjacent to them,
- (c) be used as an *exit* from the ground floor level only, and
- (d) be not less than 3 m from the foot of any stairway.

(2) Except as permitted by Sentence (3), a revolving door shall not be considered to have an exiting capacity for more than 45 persons.

(3) An electrically powered revolving door is not required to conform to Sentences (1) and (2) provided

- (a) the door leaves will collapse and stop automatic rotation of the door system and not obstruct the doorway if a force not more than that specified in Sentence 3.4.6.15.(2) is applied at the centre of a door leaf,
- (b) the door leaves are capable of being opened from inside the *building* without requiring keys, special devices, or specialized knowledge of the door opening mechanism,
- (c) the allowable exiting capacity is based on the clear width of passage through the door enclosure when the doors are fully collapsed,
- (d) a permanent sign, whose centreline is between 1 000 and 1 500 mm above the floor, is placed on each face of each door leaf indicating the method for collapsing the door leaf in an emergency, and
- (e) glass used for door leaves and enclosure panels is safety glass conforming to CAN2-12.1-M, "Glass, Safety, Tempered or Laminated" or CAN2-12.11-M, "Glass, Wired, Safety".

**3.4.6.15. Door Release Hardware**

(1) Except as required in Sentence (5), if a door is equipped with a latching mechanism, a device that will release the latch and allow the door to swing wide open when a force of not more than 90 N is applied to the device in the direction of *exit* travel shall be installed on

- (a) every *exit* door from a *floor area* containing a Group A *occupancy* having an *occupant load* of more than 100 persons,
- (b) every door leading to an *exit* lobby from an *exit* stair shaft, and every exterior door leading from an *exit* stair shaft in *buildings* having an *occupant load* of more than 100 persons, and
- (c) every *exit* door from a *floor area* containing a Group F, Division 1 *occupancy*.

(2) Every *exit* door shall be designed and installed so that, when the latch is released, the door will open under a force of not more than 90 N, applied at the knob or other latch releasing device.

(3) Locking, latching and other fastening devices on any required *exit* door shall be such that the door can be readily opened from the inside without requiring keys, special devices or specialized knowledge of the door opening mechanism, except that this requirement does not apply to locking, latching and other fastening

devices described in Sentence (4) or to doors designed to be remotely released in conformance with Article 3.3.1.12. serving a *contained use area* or an *impeded egress zone*.

(4) An electromagnetic locking device that does not incorporate latches, pins or similar devices to keep the door in the closed position is permitted to be installed on an *exit* door, other than an *exit* door in a *building* containing a *hotel* or leading directly from a Group F, Division 1 *occupancy*

- (a) if the *building* is equipped with a fire alarm system conforming to Subsection 3.2.4.,
- (b) if the locking device is installed as an ancillary device to the fire alarm system and releases immediately
  - (i) upon activation of the fire alarm signal,
  - (ii) in the event of a power failure or ground fault, and
  - (iii) upon actuation of a manually-operated switch accessible only to authorized personnel,
- (c) if a manual pull station for the fire alarm system is located on the wall not more than 600 mm from the door,
- (d) if, upon its release, the locking device must be reactivated manually by the actuation of the switch referred to in Subclause (b) (iii),
- (e) if a legible sign having the words EMERGENCY EXIT UNLOCKED BY FIRE ALARM is permanently mounted on the door, and
- (f) if the lettering on the sign required in Clause (e) is at least 25 mm high with a 5 mm stroke.

(5) In a *building* containing a *hotel* in which an *exit* door is equipped with a latching mechanism, there shall be installed on every *exit* door and on every door providing access to an *exit* from a room or *floor area* with an *occupant load* of more than 60 persons, a device consisting of a panel or bar that

- (a) extends across at least two thirds of the width of the door,
- (b) is placed at a height suitable for the service required, and
- (c) is designed to release the latch and allow the door to swing open when a force of 90 N or less is applied to the device in the direction of *exit* travel.

(6) Where an electromagnetic locking device conforming to Sentence (4) is installed, the device is also permitted to be released by a card identifier or microprocessor which may incorporate a time delay of not more than 15 seconds, provided the sign required in Clause (4) (e) has the additional words

- (a) *KEEP PUSHING*, where there is no time delay,
- (b) *KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS*, where there is a 15 second time delay, or
- (c) as required in Clause (b), with the number of seconds corresponding to the time delay of the device instead of 15.

#### 3.4.6.16. Emergency Access to Floor Areas

(1) Except as required in Sentence (4), in *buildings* more than 6 *storeys* in *building height*,

- (a) except as provided in Sentence (3), doors providing access to *floor areas* from *exit* stairs shall not have locking devices to prevent entry into
  - (i) any *floor area* designated as an area of refuge,
  - (ii) *floor areas* located at intervals of 5 *storeys* or less, and
  - (iii) at least one of the three highest *storeys*,
- (b) doors required in Clause (a) that provide access into the *floor area* shall be identified by a sign on the stairway side to indicate that they are openable from that side, and
- (c) a master key to fit all door locking devices that are intended to prevent entry into a *floor area* from an *exit* stair shall be provided in a designated location accessible to fire fighters, or the doors shall be provided with a wired glass panel not less than 645 cm<sup>2</sup> in area and located not more than 300 mm from the door opening hardware.

(2) Where access to *floor areas* through unlocked doors is required in Clause (1)(a) or through electromagnetically locked doors is permitted in Sentence (3), it shall be possible for a person entering such *floor area* to

have access through unlocked doors or electromagnetically locked doors within the *floor area* to at least one other *exit*.

(3) Electromagnetic locking devices may be installed on the doors providing access to *floor areas* in Clause (1)(a) from *exit* stairs, provided all locking device release and signage provisions in Sentence 3.4.6.15.(4) are installed on both sides of such stairway *exit* doors.

(4) If an *exit* stair shaft serving a *hotel* has locking devices to prevent entry into a *floor area* from the stair shaft, the requirements of Clause (1) (c) shall apply.

#### 3.4.6.17. Floor Numbering

(1) Arabic numerals indicating the assigned floor number shall

- (a) except as required in Clause (e), be mounted permanently on the stair side of the wall at the latch side of doors to *exit* stair shafts,
- (b) be not less than 60 mm high, raised approximately 0.7 mm above the surface,
- (c) be located 1 500 mm from the finished floor and not more than 300 mm from the door,
- (d) be contrasting in colour with the surface on which they are applied, and
- (e) be mounted permanently on the stair side and the floor side of doors to *exit* stair shafts that serve a *building* containing a *hotel*.

#### 3.4.7. Fire Escapes

##### 3.4.7.1. Scope

(1) Except as provided in Sentence (2), fire escapes shall not be erected on *buildings*.

(2) Where it is impractical to provide one or more of the *exit* facilities in Article 3.4.1.4., fire escapes conforming to Articles 3.4.7.2. to 3.4.7.6. are permitted to serve *floor areas* in existing *buildings* provided the *floor areas* served are not more than

- (a) 2 *storeys* above ground level in Group B *occupancies*, and
- (b) 5 *storeys* above ground level in other *occupancies*.

**3.4.7.2. Fire Escape Construction.** Fire escapes shall be of metal or concrete, of the stair type extending to ground level, constructed throughout in a strong substantial manner and securely fixed to the *building*, except that wooden fire escapes are permitted to be used on *buildings of combustible construction* if all posts and brackets are not less than 89 mm in their least dimension and all other woodwork is not less than 38 mm in its least dimension.

##### 3.4.7.3. Access to Fire Escapes

(1) Access to fire escapes shall be from corridors through doors at floor level, except that access from a *dwelling unit* is permitted to be through a casement window having an unobstructed opening of not less than 1 100 mm high by 550 mm wide with a sill height of not more than 900 mm above the inside floor.

(2) Where doors open onto fire escape balconies, such balconies shall have a clear area of not less than 1 m<sup>2</sup>.

**3.4.7.4. Protection of Fire Escapes.** Where a fire escape serves any *storey* above the second, openings, including access doorways in the exterior walls of the *building* to which the fire escape is attached, shall be protected by *closures* conforming to Subsection 3.1.8. where they are located within 3 m horizontally of, 3 *storeys* or 10 m below, or 1.8 m above any balcony, platform or stairway of a fire escape.

##### 3.4.7.5. Stairs

(1) Stairs shall be inclined at an angle of not more than 45° with the horizontal, and shall have risers not more than 210 mm high and treads not less than 220 mm wide exclusive of nosing.

(2) Stairway headroom shall be not less than 1 950 mm plus the height of one riser measured vertically above the nosing of any tread or platform.

(3) The width of a fire escape shall conform to Sentence 3.4.3.1.(1), except that the fire escape shall be not less than 550 mm wide when serving

- (a) not more than 3 *storeys*, and



- (b) not more than 15 persons.

(4) Where the flight of stairs leading to the ground at the foot of a fire escape is not fixed in position, it shall be held in the raised position without a latch or locking device, and shall be fitted with a counterbalancing device that will permit it to be easily and quickly brought into position for use.

#### 3.4.7.6. Guards and Railings

(1) The open sides of every platform, balcony and stairway shall be protected by *guards* not less than 920 mm high measured vertically above the nosing of any tread or platform.

(2) Two equally spaced rails not more than 460 mm apart, parallel to stair stringers and to platform edges, shall be the minimum protection provided, and the top rail is permitted to serve as a handrail if free from obstructions which could break a hand hold.

(3) A wall handrail shall be installed where the fire escape is more than 550 mm wide.

### Section 3.5 Service Facilities

#### 3.5.1. General

**3.5.1.1. Scope.** The provisions of this Section apply to attic, duct, crawl and shaft spaces and *service rooms*, mechanical penthouses and facilities contained therein.

**3.5.1.2.** Reserved.

**3.5.1.3. Storage Use Prohibition.** *Service spaces* provided to contain service facilities shall not be designed to facilitate subsequent use as storage space.

#### 3.5.2. Service Rooms

##### 3.5.2.1. Fire Separations around Service Rooms

(1) Except as provided in Article 3.5.2.2., fuel-fired *appliances* shall be located in a *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than

- (a) 2 h in *buildings* classified as Group B or Group F, Division 1 *occupancy* where such *buildings* are more than 2 *storeys* in *building height* or 400 m<sup>2</sup> in *building area*,
- (b) that required for portable classrooms in Articles 3.9.3.6. and 3.9.3.7., and
- (c) 1 h in *buildings* other than as described in Clauses (a) and (b).

(2) A solid fuel fired *appliance* shall not be located in a *repair garage*, a *storage garage* or any other location where the *appliance* could be exposed to flammable vapours or gases unless

- (a) it is enclosed in a *service room* which is
  - (i) separated from the remainder of the *building* in conformance with Sentence (1), and
  - (ii) supplied with combustion air directly from outside the *building*, and
- (b) the heat generated by the *appliance* is supplied indirectly to the space served by means of ducts or piping.

(3) Except as provided in Article 3.5.2.2., *service rooms* used for purposes other than those described in Sentences (1) and (2) and Articles 3.5.2.6. and 3.5.2.7. shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h when the *floor area* containing such rooms is not *sprinklered*.

(4) Where a *service room* is intended to contain equipment that uses a liquid having a flash point below 93.3°C, the requirements in Sentence (1) shall apply.

(5) Sentence 3.5.2.2.(3) shall not apply to a room that contains electrical equipment that is required to be located in a *service room* in conformance with a regulation made under the *Power Corporation Act*.

##### 3.5.2.2. Waiver of Fire Separations

(1) No *fire separation* is required for fireplaces or roof-top *appliances*.

(2) Except for *buildings* classified as Group B or Group F, Division 1 *major occupancy*, the *fire separations* required in Sentence 3.5.2.1.(1) need not be provided for fuel-fired *appliances*, other than fuel-fired *appliances* referred to in Sentence 3.5.2.1.(2), that serve

(a) not more than one room or *suite*, or

(b) a *building* with a *building area* of not more than 400 m<sup>2</sup> and a *building height* of not more than 2 storeys.

(3) Where a room contains a limited quantity of service equipment, and the service equipment does not constitute a fire hazard, the requirements for a *fire separation* or sprinklering in Sentence 3.5.2.1.(3) shall not apply.

**3.5.2.3. Elevator Machine Rooms.** A *room* containing elevator machinery need not be separated from the elevator hoistway connected to it provided the *room* is separated from all other parts of the *building* by a *fire separation* having a *fire-resistance rating* at least equal to that required for the *vertical service space* containing the elevator hoistway.

**3.5.2.4. Service Rooms under Exits.** *Service rooms* containing service equipment subject to possible explosion such as *boilers* operating in excess of 100 kPa (gauge) and some types of refrigerating machinery and transformers shall not be located directly under required *exits*.

**3.5.2.5. Service Equipment.** *Service rooms* containing *space heating*, *space cooling* and *service water heating appliances* are permitted to contain other service equipment such as electrical service equipment.

**3.5.2.6. Incinerator Rooms**

(1) *Service rooms* containing an incinerator shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(2) *Service rooms* containing an incinerator shall not contain other fuel-fired *appliances*.

**3.5.2.7. Combustible Refuse Storage.** Except as provided in Sentence 3.5.3.3.(9), rooms for the temporary storage of *combustible* refuse such as garbage or waste paper shall be separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* of not less than 1 h and be *sprinklered*.

**3.5.2.8. Door Swing for Service Rooms.** Swing-type doors from a *service room* such as a *boiler* or incinerator room shall swing outward from such rooms, except that the door shall swing inward when the door opens on a corridor or any room for assembly purposes.

**3.5.2.9. Electrical Equipment Vaults**

(1) Where an electrical equipment vault is required by a regulation made under the *Power Corporation Act*, the electrical equipment vault shall be totally enclosed by a *fire separation* of solid masonry or concrete construction having a *fire-resistance rating* of not less than 3 h if the vault is not provided with an automatic fire extinguishing system and not less than 2 h if the vault is so protected.

(2) Where a *building* is required to be *sprinklered*, the electrical equipment vault described in Sentence (1) need not be *sprinklered* provided

(a) the vault is designed for no purpose other than to contain the electrical equipment, and

(b) a *smoke detector* is provided in the vault which will actuate the *building* fire alarm system in the event of a fire in the vault.

(3) A vault, which is part of a *building* and houses electrical equipment indoors, shall have,

(a) roofs or ceilings consisting of reinforced concrete of adequate strength for the conditions and not less than 150 mm thick, and

(b) floors consisting of reinforced concrete of adequate strength for the conditions and not less than 150 mm thick, except that floors which are at excavation level are permitted to be of reinforced concrete not less than 100 mm thick.

(4) Walls, roofs or ceilings, and floors shall be adequately anchored together in a manner designed to resist dislodgement by explosion.

(5) Only pipes or ducts necessary for fire protection or the proper operation of the electrical installation shall penetrate the *fire separations* surrounding the electrical equipment vault.

(6) A ventilation duct or opening, which penetrates the *fire separation* to the outdoors, need not be protected by a *closure* at the penetration.

(7) Each door to an electrical equipment vault shall be provided with a substantial lock or padlock.

(8) Explosion-relief devices and vents or other protective measures shall be provided for every electrical

equipment vault containing dielectric liquid filled electrical equipment in conformance with Sentence 3.3.1.19.(2).

(9) Every electrical equipment vault shall be provided with a ventilation system designed in conformance with Part 6 to prevent the ambient temperature in the vault from exceeding 40°C.

(10) Where the vault ventilation system in Sentence (9) is directly from an outdoor area by natural ventilation without the use of ducts, and where the electrical equipment is the principal source of heat, the combined net area of inlet and outlet openings shall be not less than 19 cm<sup>2</sup>/kva of electrical equipment capacity with a minimum of 930 cm<sup>2</sup>, except that

- (a) where equipment in the power class as described in CAN3-C88, "Power Transformers and Reactors" is installed, ventilation requirements are permitted to be based on the actual full-load losses, or
- (b) where the equipment is installed for emergency purposes only and is not normally energized, it need not be considered in determining the ventilation requirements.

(11) In the vault ventilation system in Sentence (10), the inlet for fresh air shall lead from an outdoor area and shall terminate at a point not more than 1 m above the floor level of the vault.

(12) Where the vault ventilation system in Sentence (9) is a mechanical system, it shall be separate from the system for the remainder of the *building* and shall be designed so that

- (a) the vault temperature is thermostatically controlled,
- (b) the fan is located so that it may be serviced without danger to personnel,
- (c) a high temperature alarm is provided in the vault,
- (d) the system is automatically shut off in the event of a fire in the vault, and
- (e) a filter is provided in the air inlet if there is a possibility of dirt being drawn in.

(13) All ventilation openings shall be protected in conformance with Sentences 6.2.3.12.(5) and (6) and the protection shall be installed in such a manner that it cannot be removed from the outside by the use of common tools and it is tamperproof.

(14) Except as permitted in Sentence (15), the floor of the electrical equipment vault described in Sentences (1) and (2) shall be liquid tight and surrounded by liquid tight walls and sills of sufficient height to confine within the vault all of the liquid from the largest item of electrical equipment, but to a height of not less than 100 mm.

(15) The floor of the electrical equipment vault described in Sentences (1) and (2) may be provided with a floor drain connected to a covered sump capable of holding all of the liquid from the largest item of electrical equipment, and the connection shall have a *noncombustible* trap to prevent the spread of fire from the vault to the sump.

**3.5.2.10. Sprinkler Temperature Rating.** In *buildings* that are required to be *sprinklered*, sprinklers in elevator machine rooms shall have a temperature rating not less than that required for an intermediate temperature classification and be protected with guards.

#### **3.5.2.11. Storage of Oxygen Cylinders**

(1) When oxygen cylinders are not in use in a Group B, Division 2 *institutional occupancy*, the oxygen cylinders shall be stored in a room that is

- (a) used for no other purpose,
- (b) vapour tight,
- (c) lined with *noncombustible* finish,
- (d) separately exhausted to the exterior,
- (e) equipped with a blowout panel, if the room is designed to store 4 or more cylinders,
- (f) equipped with racks to store the cylinders, and
- (g) *sprinklered*, if the room is designed to store 4 or more cylinders.

(2) If sprinklers are required under Clause (1) (g) in a *building* or *floor area* that is not *sprinklered*, the sprinklers are permitted to be supplied with water from the domestic supply or the standpipe system.



### 3.5.3. Vertical Service Spaces and Service Facilities

#### 3.5.3.1. Fire Separations for Vertical Service Spaces

(1) Except as provided in Sentence (2), every *vertical service space* shall be separated from each adjacent *floor area* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.5.3.A. for the *fire-resistance rating* required for the floor assembly above the *floor area* and, where there is no floor assembly above, conforming to that required by Subsection 3.2.2. for the floor assembly below.

**Table 3.5.3.A.**  
Forming Part of Sentence 3.5.3.1.(1)

<i>Fire-Resistance Rating of Fire Separation Required for Floor Assembly</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space</i>	<i>Minimum Fire-Resistance Rating of Elevator Shaft</i>
less than 45 min	—	45 min
45 min	45 min	45 min
1 h	45 min	45 min
1.5 h	1 h	1 h
2 h	1 h	1.5 h
3 h	1.5 h	2 h
Column 1	2	3

(2) *Vertical service spaces* containing elevators for use by fire fighters in Articles 3.2.6.9. and 3.3.1.7. shall be separated from each adjacent *floor area* by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly above the *floor area* and, where there is no floor assembly above, at least equal to that required for the floor assembly below, but in no case shall the *fire-resistance rating* be less than 45 min.

(3) Every *vertical service space* that does not extend through the roof of a *building* shall be enclosed at the top with construction having a *fire-resistance rating* not less than that required for the *service space* walls.

(4) Every *vertical service space* that does not extend to the bottom of a *building* shall be enclosed at the lowest level with construction having a *fire-resistance rating* not less than that required for the *service space* walls.

(5) Vents from *vertical service spaces* not extending to the roof shall be enclosed within the *building* with construction having a *fire-resistance rating* not less than that required for the *service space* walls.

(6) Only openings that are necessary for the use of the *vertical service space* shall be permitted in the *service space* enclosure.

**3.5.3.2. Foamed Plastic Protection.** Foamed plastic insulation in *vertical service spaces* shall be protected in conformance with Article 3.1.5.11.

#### 3.5.3.3. Linen or Refuse Chutes

(1) Every linen or refuse chute shall

- (a) be impervious to moisture,
- (b) have a smooth internal surface,
- (c) be corrosion-resistant,
- (d) be constructed of *noncombustible* material, and
- (e) be located in a shaft in which there are no services other than *noncombustible* drain, waste and vent piping or *noncombustible* water piping.

(2) Every shaft containing a linen or refuse chute shall have a *fire-resistance rating* conforming to Sentence 3.5.3.1.(1), but not less than

- (a) 1 h where the chute outlet for the discharge room is protected by an automatic, self-latching *closure* held open by a fusible link, or
- (b) 2 h where no *closure* is provided at the chute outlet into the discharge room.

(3) Every interior linen or refuse chute shall extend at least 1 m above the roof and shall be vented above the roof with a vent which

- (a) has an unobstructed area not less than the cross-sectional area of the chute, and

- (b) is equipped with a cover that will open automatically or that can be opened manually in the event of a fire in the chute.

(4) Intake openings for linen or refuse chutes shall

- (a) have an area not more than 60 per cent of the cross-sectional area of the chute, and
- (b) be fitted with *closures* designed to close automatically and latch after use.

(5) Intake openings for linen or refuse chutes shall be located in rooms or compartments that

- (a) have no dimension less than 750 mm,
- (b) are separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* of not less than 45 min,
- (c) are designed for no other purpose, and
- (d) do not open directly into an *exit*.

(6) Sprinklers shall be installed at the top of each linen and refuse chute, at alternate floor levels and in the room or bin into which the chute discharges.

(7) The room into which a linen chute discharges shall be separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* of not less than 1 h.

(8) Every refuse chute shall be equipped at the top with spray equipment for washing-down purposes.

(9) A refuse chute shall discharge only into a room or bin separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* of not less than 2 h.

(10) The room or bin into which a refuse chute discharges shall be of sufficient size to contain the refuse between normal intervals of emptying, be impervious to moisture and be equipped with a water connection and floor drain for washing-down purposes.

(11) Rooms into which refuse chutes discharge shall contain no service equipment that is not related to garbage handling and disposal.

**3.5.3.4. Exhaust Duct Negative Pressure.** When a *vertical service space* contains an *exhaust duct* that serves more than 1 *fire compartment*, the duct shall have a fan located at or near the exhaust outlet to ensure that the duct is under negative pressure.

### **3.5.4. Horizontal Service Spaces and Service Facilities**

**3.5.4.1. Scope.** This Subsection applies to *horizontal service spaces* and service facilities, including ceiling spaces, duct spaces, crawl spaces and *attic or roof spaces*.

#### **3.5.4.2. Fire Separations for Horizontal Service Spaces**

(1) A *horizontal service space* that penetrates a required vertical *fire separation* shall be separated from the remainder of the *building* it serves in conformance with Sentence (2).

(2) Where a *horizontal service space* or other concealed space is located above a required vertical *fire separation* other than a vertical shaft, such space need not be divided at the *fire separation* as required in Article 3.1.8.3. provided the construction between such space and the space below is constructed as a *fire separation* at least equivalent to that required for the vertical *fire separation*, except that where the vertical *fire separation* is not required to have a *fire-resistance rating* of more than 45 min, the *fire-resistance rating* is permitted to be not less than 30 min.

#### **3.5.4.3. Plenum Requirements**

(1) The concealed space between the ceiling and floor or ceiling and roof used as a *plenum* need not conform to Sentence 3.1.5.14.(1) and Article 6.2.3.2. provided

- (a) all materials within the ceiling space have a *flame-spread rating* of not more than 25 and a smoke developed classification of not more than 50, except for
  - (i) tubing for pneumatic controls,
  - (ii) electrical wires and cable that exhibit a flame spread of not more than 1.5 m, a smoke density of not more than 0.5 at peak optical density and a smoke density not more than 0.15 at average optical density when tested in conformance with the Flame and Smoke Test in the Appendix to CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT6 Rating),

- (iii) electrical wires and cables that are located in totally enclosed *noncombustible* raceways, and
- (iv) single conductor electrical wires and cables that comply with the test requirements in Clause 3.1.5.17.(1) (a), (FT4 Rating) or in Subclause (ii), (FT6 Rating), and

- (b) the supports for the ceiling membrane are of *noncombustible* material having a melting point not below 760°C.

(2) When the concealed space referred to in Sentence (1) is used as a return-air *plenum* and incorporates a ceiling membrane that forms part of the required *fire-resistance rating* of the assembly, every opening through the membrane shall be protected by a *fire stop flap* which shall

- (a) stop the flow of air into the concealed space in the event of a fire,
- (b) be supported in a manner that will maintain the integrity of the ceiling membrane for the duration of time required to provide the required *fire-resistance rating*, and
- (c) conform to CAN4-S112.2-M, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies".

(3) Asbestos paper shall not be exposed in supply and return-air systems.

**3.5.4.4. Attic or Roof Space Access.** Every *attic or roof space* more than 600 mm in height shall be provided with access from the floor immediately below by a hatchway not less than 550 mm by 900 mm or by a stairway.

**3.5.4.5. Horizontal Service Space Access.** *Horizontal service spaces* consisting of ceiling and duct spaces which are more than 1 200 mm high and 600 mm wide shall have access doors not less than 600 mm in both horizontal and vertical dimensions, or shall have inspection doors not less than 300 mm in both horizontal and vertical dimensions placed so that the entire interior of the duct or space can be viewed.

**3.5.4.6. Crawl Space Access.** Every crawl space shall have at least one access opening not less than 550 mm by 900 mm.

### **3.5.5. Elevators, Dumbwaiters and Escalators**

#### **3.5.5.1.**

- (1) Reserved.
- (2) Reserved.

(3) Elevators in *buildings* within the scope of Subsection 3.2.6. shall conform to Articles 3.2.6.8. and 3.2.6.9.

#### **3.5.5.2. Reserved.**

## **Section 3.6 Health Requirements**

### **3.6.1. Height and Area of Rooms**

#### **3.6.1.1. Room and Space Height**

(1) The height of every room and space shall be such that adequate light and air may be provided for the intended *occupancy*, and that no obstruction to movement or activities below is caused by the ceiling or ceiling fixtures.

(2) The unobstructed height in *dwelling units* and sleeping rooms in Group C *occupancies* shall conform to Part 9.

**3.6.1.2. Residential Room Dimensions.** The areas and widths of rooms in *dwelling units*, dormitories, boarding houses and rooming houses shall conform to Part 9.

#### **3.6.1.3. Sleeping Areas in Group B and Day Care Centres**

(1) Except as provided in Sentence (2), a sleeping area in a Group B *occupancy* shall provide not less than 4.7 m<sup>2</sup> per person in a room having

- (a) an area not less than 7 m<sup>2</sup>,
- (b) a horizontal dimension not less than 2 m, and
- (c) a ceiling height not less than 2.3 m.

(2) Sleeping rooms for residents in nursing homes shall have, exclusive of space provided for washrooms and for built-in or portable clothes closets, a floor space not less than

- (a) 10.22 m<sup>2</sup> in a single-bed unit,
- (b) 16.72 m<sup>2</sup> in a two-bed unit,
- (c) 25.08 m<sup>2</sup> in a three-bed unit, and
- (d) 29.73 m<sup>2</sup> in a four-bed unit.

(3) Day care centres shall provide sleeping accommodation having not less than 0.93 m<sup>2</sup> of floor surface area for each child with not less than 2.3 m ceiling height over the entire room area.

#### 3.6.1.4. Sleeping Areas in Camps

(1) *Recreational camps* shall have an area in the sleeping quarters of not less than 3.72 m<sup>2</sup> per camper or, if double or triple tier bunk units are used, 2.79 m<sup>2</sup> per camper.

(2) A *camp for housing of workers* shall have an area of not less than 3.72 m<sup>2</sup> per employee in every room used for sleeping purposes.

#### 3.6.2. Windows

##### 3.6.2.1. Window Areas

(1) Except as provided in Sentences (2) and (3) or otherwise permitted, every room used for sleeping in any building, and every principal room such as living room, dining room or combination thereof in *dwelling units* shall be provided with windows having areas conforming to Part 9, except that Article 9.7.1.3 does not apply.

(2) Nursing homes shall have,

- (a) in an activity room, a sitting room or a lounge, one or more windows with a total unobstructed glass area, exclusive of skylights, of not less than 10 per cent of the area of the room, and
- (b) in a patient's sleeping room, one or more windows that
  - (i) have a total unobstructed glass area, exclusive of skylights, of not less than 10 per cent of the area of the room,
  - (ii) open to the outdoors and have a total unobstructed glass area, exclusive of skylights, of not less than 5 per cent of the area of the room, and
  - (iii) are installed with the bottom edge of the glass of every window not more than 660 mm above the floor.

(3) Play activity rooms in *day nurseries* shall have one or more windows that conform to Clause (2) (a).

##### 3.6.2.2. Window Protection in Apartment Buildings

(1) In Group C *major occupancy apartment buildings* protection shall be provided at windows to minimize the hazards to children in accordance with Sentences (2) to (4).

(2) Fixed windows within *dwelling units* that extend to less than 1 m from the floor shall be protected by *guards* to at least 1 m above the floor, or shall be designed to withstand the lateral *design loads* for balcony *guards* in Part 4.

(3) Except as provided in Sentence (4), in *dwelling units* any window located more than 2 m above *grade* which opens within 1.5 m of the floor shall be protected

- (a) by a *guard* conforming to Sentence 3.3.1.17.(3),
- (b) by
  - (i) a controlled sash operation to restrict, when engaged, the opening of the operable sash to not more than 100 mm, and
  - (ii) a heavy duty screen conforming to CAN/CSA-A440-M, "Windows", or
- (c) by an alternative device which does not reduce the degree of safety provided by Clauses (a) or (b).

(4) Protection of a window need not be provided in a *dwelling unit* where an exterior balcony is constructed for the full length of a window.

#### 3.6.3. Ventilation

3.6.3.1. All rooms and spaces shall be ventilated to conform with Part 6.



### 3.6.4. Plumbing Facilities

#### 3.6.4.1. Plumbing and Drainage Systems

(1) Except as permitted in Sentence (3), each *building* situated on property that abuts on a *street* in which a public or municipal water main is located shall be provided with or have accessible to its occupants a *plumbing system* including a potable water supply, a *sanitary drainage system* and toilet fixtures.

(2) When the installation of a *sanitary drainage system* is not possible because of the absence of a water supply, sanitary privies, chemical closets or other means for the disposal of human waste shall be provided.

(3) Plumbing facilities need not be provided in a *building* which is not normally occupied by persons where such installations are impractical and other facilities are available in nearby *buildings* when the subject *building* is in use.

#### 3.6.4.2. Sanitary Facilities

(1) Except as provided in Sentence (25), water closets and other plumbing facilities shall be provided for each sex in accordance with the anticipated proportion of each sex in the *occupancy* when this can be determined with reasonable accuracy, except that when such a determination cannot be made with reasonable accuracy, it shall be assumed that the *occupancy* is equally divided between the sexes.

(2) Except as provided in Sentence (3), if water closets are required under this Subsection, urinals are permitted to be substituted for water closets up to a maximum of

- (a) one fifth of the number of water closets required for hospitals and nursing homes, and
- (b) two thirds of the number of water closets required in *buildings* other than hospitals and nursing homes.

(3) If only 2 water closets are otherwise required under this Subsection, one urinal is permitted to be substituted for one of the water closets.

(4) Wall and floor surfaces below the uppermost surfaces of urinals shall be protected from deterioration for a distance from the urinal to a point not less than 900 mm from the projected outline of the urinal on to the wall or floor by impervious and durable material.

(5) Except as provided in Sentences (7), (9), (18), (23), (27), (28) and (29), not less than one lavatory shall be provided in a room containing 1 or 2 water closets or urinals and not less than one additional lavatory for each additional 2 such fixtures.

(6) A floor drain shall be installed in a washroom containing urinals equipped with automatic flushing devices.

(7) Wash fountains in circular or straight trough form are permitted to be provided in lieu of lavatories required in Sentence (5) provided each 500 mm of circumference or trough length is considered to be the equivalent of one lavatory.

(8) Except as provided in Sentence (11), the minimum number of water closets shall be determined from Table 3.6.4.A. for an *occupant load* based on,

- (a) an area of 14 m<sup>2</sup> per person in Group D, *business and personal services occupancy*, and
- (b) Subsection 3.1.14. for all other *occupancies*.

Table 3.6.4.A.  
Forming Part of Sentence 3.6.4.2.(8)

Type of Building, Floor Area or Room	Reference Article or Maximum Number of Persons per Water Closet	
	Male	Female
Group A, <i>Assembly Occupancies</i>		
(1) Group A, Division 1, except motion picture <i>theatres</i>	3.6.4.2.(14)	
(2) Motion picture <i>theatres</i>	3.6.4.2.(15)	
(3) Group A, Division 3 and 4 <i>occupancies</i> and <i>outdoor pools</i>	3.6.4.2.(15)	
(4) dance halls and recreational establishments	100	75
(5) classrooms, primary and secondary	30	26
(6) college <i>buildings</i> , non-residential	100	75
(7) dining rooms and restaurants	public: 3.6.4.2.(16) employees: 3.6.4.2.(18)	
(8) establishments used primarily for the consumption of alcoholic beverages (limited or no food service)	public: 3.6.4.2.(17) employees: 3.6.4.2.(18)	
(9) drive-in <i>theatres</i> and restaurants	3.6.4.2.(16)	
(10) day care centres	3.6.4.2.(23)	
(11) places of worship and undertaking premises	150	150
(12) all other <i>assembly occupancies</i>	3.6.4.2.(21)	
Group B, <i>Institutional Occupancies</i>		
(1) Division 1	3.6.4.2.(22)	
(2) Division 2	3.6.4.2.(13) & (26)	
Group C, <i>Residential Occupancies</i>		
(1) <i>dwelling units</i>	9.32.4.	
(2) <i>recreational camps, camps for housing of workers</i>	3.6.4.2.(28).(29)	
(3) all other <i>residential occupancies</i>	3.6.4.2.(13)	
Group D, <i>Business and Personal Service Occupancies</i>	3.6.4.2.(13)	
Group E, <i>Mercantile Occupancies</i> , except restaurants	3.6.4.2.(13) and (24)	
Group F, <i>Industrial Occupancies</i>	3.6.4.2.(13)	
Column 1	2	3

(9) In a Group F *occupancy*, at least 1 lavatory shall be provided for each water closet required in Table 3.6.4.B.

(10) On every floor where work will be performed and within 100 m of any area where work will be performed, potable water shall be provided from,

- (a) a fountain with an upward jet
- (b) a tap from a piped water supply, or
- (c) a tap from a covered vessel.

(11) Where mobile homes do not have individual sanitary facilities connected to a central water supply and

drainage system, a service *building* shall be provided for public use and shall contain at least one water closet for each sex where the facilities serve not more than 10 mobile homes, and where the facilities serve more than 10 mobile homes, an additional water closet for each sex shall be provided for each additional 10 mobile homes.

(12) Where a service *building* is required by Sentence (11), it shall contain lavatories as required in Sentence (5) and at least

- (a) 1 laundry tray or similar facility, and
- (b) 1 bathtub or shower for each sex.

(13) The minimum number of water closets shall conform to Table 3.6.4.B. for

- (a) Group B, Division 2 *institutional occupancies* as determined by the number of employees,
- (b) Group C, *occupancies*, except for *dwelling units*, *recreational camps* and *camps for housing of workers*,
- (c) Group D *occupancies*,
- (d) Group E *occupancies*, as determined by the number of employees, and
- (e) Group F *occupancies*, as determined by *occupant load*.

**Table 3.6.4.B.**  
Forming Part of Sentence 3.6.4.2.(13)

Number of persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus one for each additional 30 persons over 100
Column 1	2

(14) Except for motion picture *theatres*, the number of water closets required in Group A, Division 1 *occupancies* shall conform to Table 3.6.4.C.

**Table 3.6.4.C.**  
Forming Part of Sentence 3.6.4.2.(14)

Number of Persons of Each Sex	Minimum Number of Water Closets	
	Male	Female
up to 25	1	1
26 to 50	1	2
51 to 75	2	3
76 to 100	2	4
101 to 150	3	5
151 to 200	4	6
201 to 300	5	7
301 to 400	6	8
over 400	7 plus 1 for each additional 200 males over 400	9 plus 1 for each additional 150 females over 400
Column 1	2	3

(15) For motion picture *theatres*, and Group A, Division 3 and 4 *occupancies*, and *outdoor pools*, the minimum number of water closets shall conform to Table 3.6.4.D.



Table 3.6.4.D.  
Forming Part of Sentence 3.6.4.2.(15)

Number of persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 50	1
51 to 150	2
151 to 250	3
251 to 375	4
376 to 500	5
over 500	6 plus one for each additional 150 persons over 500
Column 1	2

- (16) The minimum number of water closets shall conform to Table 3.6.4.E. for,
- (a) the number of persons of each sex in dining rooms and restaurants,
  - (b) the number of parking spaces in drive-in *theatres*, and
  - (c) a parking lot that is part of a restaurant where patrons are intended to eat in vehicles parked thereon, and each 2 parking spaces required for this intention shall be considered equivalent to
    - (i) 2 persons of each sex where employees serve food on the parking lot, or
    - (ii) 1 person of each sex where food service by employees is not provided on the parking lot.

Table 3.6.4.E.  
Forming Part of Sentence 3.6.4.2.(16)

Number of Persons of Each Sex or One-Half the Number of Parking Spaces in Drive-in <i>Theatres</i>	Minimum Number of Water Closets for Each Sex
up to 20	1
21 to 70	2
71 to 105	3
106 to 135	4
136 to 165	5
166 to 195	6
196 to 225	7
226 to 275	8
276 to 325	9
326 to 375	10
376 to 425	11
over 425	12 plus one for each additional 50 persons of each sex over 425 or each additional 100 parking spaces over 850
Column 1	2

- (17) The minimum number of water closets shall conform to Table 3.6.4.F. for the number of persons of each sex in establishments used primarily for the consumption of alcoholic beverages.

Table 3.6.4.F.  
Forming Part of Sentence 3.6.4.2.(17)

Number of persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 50	2
51 to 70	3
71 to 90	4
Column 1	2

**Table 3.6.4.F.—(Cont'd)**  
Forming Part of Sentence 3.6.4.2.(17)

Number of persons of Each Sex	Minimum Number of Water Closets for Each Sex
91 to 110	5
111 to 140	6
141 to 180	7
181 to 220	8
221 to 260	9
over 260	10 plus one for each additional 40 persons of each sex over 260
Column 1	2

(18) Except as provided in Sentence (19), in every dining room, restaurant, cafeteria and alcoholic beverage establishment having more than 40 seats, separate facilities shall be provided for employees, and the minimum number of water closets and lavatories shall conform to Table 3.6.4.G.

**Table 3.6.4.G.**  
Forming Part of Sentence 3.6.4.2.(18)

Number of Employees of Each Sex	Minimum Number of Water Closets	
	Male	Female
up to 9	1	1
10 to 24	2	2
25 to 49	3	3
50 to 74	4	4
75 to 100	5	5
over 100	6 plus 1 for each additional 30 employees over 100	6 plus 1 for each additional 30 employees over 100
Column 1	2	3

(19) Where the total number of employees does not exceed 5, the same room may be used by both sexes provided that the door to the room can be locked from the inside.

(20) In determining the number of employees in Sentences (18) and (19), this shall be the maximum number of employees who are normally present on the premises at one time and shall include only those who are present for more than 25 per cent of the working day.

(21) The minimum number of water closets shall conform to Table 3.6.4.H. for Group A *occupancies* not shown in Tables 3.6.4.A., 3.6.4.C., 3.6.4.D., 3.6.4.E., 3.6.4.F., 3.6.4.G. or 3.6.4.I.

**Table 3.6.4.H.**  
Forming Part of Sentence 3.6.4.2.(21)

Number of persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 25	1
26 to 50	2
over 50	3 plus 1 for each additional 50 persons over 50
Column 1	2

(22) In a Group B, Division 1 *occupancy* the maximum number of persons per water closet shall be determined by the appropriate authority having jurisdiction.

(23) In a day care centre the maximum number of children per water closet and lavatory shall conform to

Table 3.6.4.1. except that plumbing fixtures for children over the age of 9 years shall conform to the requirements for classrooms in Table 3.6.4.A.

Table 3.6.4.1.  
Forming Part of Sentence 3.6.4.2.(23)

Age of Children	Maximum Number of Children per Water Closet and Lavatory
under 2	10 without regard to number of each sex
2 to 5	15 without regard to number of each sex
6 to 9	15 for males 15 for females
Column 1	2

(24) For the public in Group E *occupancies* the maximum number of persons per water closet shall be 300 males or 150 females except that,

- (a) facilities provided for employees may be counted as part of those required for the *occupancy* when such facilities are made accessible to the public, and
- (b) where the sum of *floor areas*, excluding *basements*, is less than 600 m<sup>2</sup>, not more than one water closet for each sex need be provided.

(25) Not more than 1 water closet to serve both sexes need be provided in

- (a) a Group D *occupancy* having an *occupant load* not exceeding 5 persons, or
- (b) a Group E or F *occupancy*,
  - (i) having an *occupant load* not exceeding 9 persons, or
  - (ii) where the sum of the *floor areas*, excluding *basements*, does not exceed 300 m<sup>2</sup>.

(26) In a Group B, Division 2 *institutional occupancy*, a washroom that is equipped with 1 water closet and 1 lavatory and is accessible from patients' sleeping rooms shall be provided to serve not more than 4 patients.

(27) A water distribution system supplying hot water to bathtubs, showers and hand basins that are accessible to patients or residents in Group B, Division 2 *institutional occupancies* or residents of a group home, a home for special care or a residence for developmentally-handicapped adults shall have 1 or more temperature gauges and control devices that are

- (a) accessible only to supervisory staff, and
- (b) capable of being adjusted to ensure that the temperature of the water supplied to the fixtures does not exceed 49°C.

(28) A minimum of 1 water closet or privy shall be provided

- (a) for every 10 campers of each sex in a *recreational camp*, or
- (b) for every 10 employees of each sex in a *camp for housing of workers*.

(29) In *recreational camps* and *camps for housing of workers*, at least 2 lavatories or provision for a pail or other portable container of sound *construction* shall be provided for each of the water closets or privies required in Sentence (28).

(30) A *camp for housing of workers* shall include

- (a) at least 1 shower or other area of bathing, and
- (b) provisions for at least 1 washing machine or laundry tub for every 15 beds.

(31) Every *pharmacy* shall be provided with a sink with hot and cold running water for washing utensils used in the preparation, service or storage of drugs.

3.6.4.3. **Safety Glass.** Glass, other than safety glass, shall not be used for a shower or bathtub enclosure.

3.6.4.4. **Grab Bar Installation.** Grab bars that are installed shall resist a minimum load of 1.3 kN applied vertically or horizontally.

**3.6.4.5. Privacy**

(1) Every room containing sanitary facilities serving one sex only shall be enclosed by a full height door which shall be clearly marked to indicate the sex served.

(2) Rooms providing separate water closets for more than one male or female shall be designed so that the water closets and urinals are not visible when the doors to such rooms open onto a place where persons of the other sex work or pass.

**3.6.4.6. Location of Sanitary Facilities.**

(1) A room containing a water closet shall be located where

- (a) it does not open directly into any room or area where food is intended to be stored, prepared, processed, distributed, served, sold or offered for sale, and
- (b) it is not necessary for the public to go through the food preparation areas to gain access to the sanitary facilities.

(2) Except as permitted in Sentence (3), sanitary facilities for the public and employees in a restaurant shall be located in the restaurant.

(3) The sanitary facilities for the public in Sentence (2) need not be located in the restaurant where

- (a) the facilities are located in the *building* containing the restaurant, and
- (b) the distance of travel between the restaurant and the facilities is not more than 45 m.

**3.6.5. Health Care Facility Systems**

**3.6.5.1. Electrical Systems.** In anaesthetizing locations, electrical systems shall be designed, constructed, installed and tested in conformance with CSA Z32.1, "Code for Prevention of Explosions or Electrical Shock in Hospital Operating Rooms".

**3.6.5.2. Medical Gas Piping.** All medical gas piping systems shall be designed, constructed, installed and tested in conformance with CSA Z305.1, "Nonflammable Medical Gas Piping Systems".

**3.6.5.3. Shielding of X-Ray Equipment**

(1) Every installation of an *x-ray machine* shall be shielded with a primary protective barrier and a secondary protective barrier so that

- (a) no x-ray worker receives a whole-body-dose-equivalent of more than 1 millisievert per week, and
- (b) no person, other than the patient undergoing an application of therapeutic or diagnostic x-rays, who is not an x-ray worker, receives a whole-body-dose-equivalent of more than 0.1 millisievert per week.

(2) The requirements of Sentence (1) shall be deemed to be met if the barriers are designed to comply with Appendix 2 of BRMD, Safety Code 20A, "X-Ray Equipment in Medical Diagnosis, Part A: Recommended Safety Procedures for Installation and Use".

(3) Lead shielding that is used as a barrier shall be mounted in such a manner as to avoid sagging or damage to it.

(4) Joints between different kinds of barrier material shall be constructed so that the overall attenuation of the barrier is not impaired.

(5) Windows, doors and other openings in a barrier shall be constructed to comply with Sentence (2).

(6) All doors leading directly into an *x-ray room* shall be fitted with self-closing devices and, if the doors are accessible to the public, shall have prominently displayed on them warning signs sufficient to alert persons to the presence of the *x-ray equipment*.

**Section 3.7 Barrier-Free Design****3.7.1. General****3.7.1.1. Application**

(1) The requirements of this Section apply to all *buildings* except

- (a) houses, including semi-detached houses, duplexes, triplexes, town houses, row houses and *boarding or rooming houses* with fewer than 8 boarders or roomers,



- (b) *buildings* of Group F, Division 1 *major occupancy*, and
- (c) *buildings* which are not intended to be occupied on a daily or full time basis, including automatic telephone exchanges, pumphouses and substations.

### 3.7.1.2. Entrances

(1) Except as required in Sentence (2), every *building* in Article 3.7.1.1. shall have at least one entrance intended for general use by the public or the occupants designed in conformance with Article 3.7.3.3. and opening to the outdoors at sidewalk level or to a ramp conforming to Article 3.7.3.4. leading to a side-walk.

(2) Where a *suite* of Group A, D or E *occupancy* is contained on the *first storey* of a *building* or on a *storey* to which a *barrier-free* path of travel is provided, and is completely separated from the remainder of the *building* so that there is no access to the remainder of the *building*, such *suite* shall have at least one *barrier-free* entrance in conformance with Sentence (1).

### 3.7.1.3. Barrier-Free Path of Travel

(1) Except as required in Sentence (4) and except as permitted in Subsection 3.7.3., every *barrier-free* path of travel shall provide an unobstructed width of at least 1 060 mm for the passage of wheelchairs.

(2) Floor surfaces along a *barrier-free* path of travel shall have no opening that will permit the passage of a sphere more than 13 mm in diam.

(3) A *barrier-free* path of travel is permitted to include ramps, elevators or other platform elevating devices where there exists a difference in elevation.

(4) Every *barrier-free* path of travel less than 1 600 mm in width shall be provided with an unobstructed space not less than 1 600 mm in width and 1 600 mm in length located not more than 30 m apart.

**3.7.1.4. Storeys Served by Escalators.** Where escalators provide access to *storeys* above or below the *first storey*, a *barrier-free* path of travel shall be provided to those *storeys* served by the escalators.

**3.7.1.5. Controls.** Except as provided in Article 3.7.3.5., controls for the operation of *building* services or safety devices, located in a *barrier-free* path of travel and intended to be operated by the occupant, including manual pull stations, electrical switches, thermostats and intercom switches, shall be accessible to a person in a wheelchair and shall be mounted at not more than 1.2 m above the floor.

**3.7.1.6. Illumination.** All portions of a *barrier-free* path of travel shall be equipped to provide a level of illumination in accordance with Sentence 3.2.7.1.(1).

## 3.7.2. Occupancy Requirements

### 3.7.2.1. Areas Requiring Barrier-Free Path of Travel

(1) Except where essential obstructions in the work area would make a *barrier-free* path of travel hazardous, a *barrier-free* path of travel shall be provided in the entrance *storey* and in each *storey* served by a passenger type elevator or other platform equipped passenger elevating device from the entrance described in Article 3.7.1.2.

- (a) into each *suite*, except for *suites* of *residential occupancy* that are in *storeys* other than the entrance *storey* and that have all entrance doors at floor levels that do not correspond to elevator stop levels,
- (b) into rooms or areas that serve the public or are designated for use by visitors, including areas in *assembly occupancies* with fixed seats, display areas and merchandising departments,
- (c) into rooms or areas for student use in *assembly occupancies*,
- (d) into general work areas, including office areas,
- (e) into general use or general service areas, including shared laundry areas in *residential occupancies*, recreational areas, cafeteria, lounge rooms, lunch rooms and infirmaries,
- (f) into patient's rooms, patient's washrooms and *floor areas* where patient services are provided,
- (g) into at least 1 passenger type elevator or elevating device conforming to Article 3.7.3.5.,
- (h) into washrooms described in Article 3.7.2.3.,
- (i) to any facility required by this Section to be designed to accommodate disabled persons,
- (j) Reserved., and

(k) to service counters, refreshment stands, drinking fountains and checkout counters.

(2) The minimum number of spaces designated for wheelchair use in Clause 3.7.2.1.(1) (b) shall conform to Table 3.7.2.A.

**Table 3.7.2.A.**  
Forming Part of Sentence 3.7.2.1.(2)

Number of Fixed Seats in Seating Area	Minimum Number of Spaces Required for Wheelchairs
up to 100	2
101 to 200	3
201 to 300	4
301 to 400	5
401 to 600	6
Over 600	Not less than 1 per cent of the seating capacity
Column 1	2

### 3.7.2.2. Access to Parking Areas

(1) A *barrier-free* path of travel shall be provided from the entrance described in Article 3.7.1.2. to

- (a) an exterior parking area, where exterior parking is provided, and
- (b) at least one parking level, where a passenger elevator serves an indoor parking level.

(2) The entrance to at least one parking level described in Sentence (1) shall have a vertical clearance of not less than 2 100 mm in all areas used by wheelchair accessible vehicles.

(3) Canopies or other overhead structures over roadways providing access to the entrance described in Sentence (1) shall have a vertical clearance of not less than 2 750 mm.

### 3.7.2.3. Washrooms Required to be Barrier-Free

(1) Except as permitted in Sentence (2), where washrooms are provided in a *storey* to which a *barrier-free* path of travel is required in conformance with Article 3.7.2.1., these washrooms shall be designed to accommodate disabled persons in conformance with the appropriate requirements in Articles 3.7.3.8. to 3.7.3.11.

(2) Washrooms need not conform to the requirements in Sentence (1) provided

- (a) they are located within *suites* of *residential occupancy*, or
- (b) other *barrier-free* washrooms are provided on the same floor level within 45 m, or
- (c) they are located in an individual *suite* having an area of less than 300 m<sup>2</sup> in *buildings* where such *suite* is completely cut off from the remainder of the *building* so that there is no access to the remainder of the *building*.

(3) In *buildings* where a washroom is required in accordance with Subsection 3.6.4., a *barrier-free* path of travel shall be provided to a *barrier-free* washroom.

### 3.7.3. Design Standards

#### 3.7.3.1. Accessibility Signs

(1) Where a *building* is required to have a *barrier-free* entrance to accommodate disabled persons, signs incorporating the international symbol of accessibility for disabled persons shall be installed where necessary to indicate the location of that entrance.

(2) Where a washroom, elevator, telephone or parking area is required to accommodate disabled persons, it shall be identified by a sign consisting of the International Symbol of Accessibility for Disabled Persons and such other graphic, tactile or written directions as are needed to indicate clearly the type of facility available.

(3) Where a washroom is not designed to accommodate disabled persons in a *storey* to which a *barrier-free* path of travel is required, signs shall be provided to indicate the location of the *barrier-free* facilities.

(4) Signs incorporating the International Symbol of Accessibility for Disabled Persons shall be installed where necessary to indicate the location of the accessible *means of egress*.

**3.7.3.2. Exterior Walks**

(1) Exterior walks that form part of a *barrier-free* path of travel shall

- (a) have a slip-resistant, continuous and even surface,
- (b) be at least 1 100 mm in width, and
- (c) have a level area adjacent to the entrance doorway conforming to Clause 3.7.3.4.(1) (c).

**3.7.3.3. Doorways and Doors**

(1) Every doorway that is located in a barrier-free *barrier-free* path of travel shall have, when the door is in the open position, a clear width of at least

- (a) 760 mm where the door is served by a corridor or space at least 1 060 mm wide, and
- (b) 810 mm where the door is served by a corridor or space less than 1 060 mm wide.

(2) Except where no bathroom within the *suite* is at the level of the *suite* entrance door to which *barrier-free* is provided in accordance with Clause 3.7.2.1.(1) (a), the doorway to at least 1 bathroom and to each bedroom at the same level as such bathroom within a *suite* of *residential occupancy* shall have, when the door is in the open position, a clear width of at least

- (a) 760 mm where the door is served by a corridor or space at least 1 060 mm wide, and
- (b) 810 mm where the door is served by a corridor or space less than 1 060 mm wide.

(3) Door opening devices that are the only means of operation shall be of a design which does not require tight grasping and twisting of the wrist.

(4) Thresholds for doorways referred to in Sentences (1) and (2) shall not exceed 13 mm in height above the finished floor surface and shall be bevelled to facilitate the passage of wheel-chairs.

(5) Except as permitted in Sentence (6), the door for the entrance described in Article 3.7.1.2. shall be equipped with a power door operator in

- (a) *hotels*,
- (b) *buildings* of Group B, Division 2, *major occupancy*, and
- (c) *buildings* of Group A, D or E *major occupancy* having more than 300 m<sup>2</sup> in *building area*.

(6) The requirements in Sentence (5) do not apply to an individual *suite* having an area of less than 300 m<sup>2</sup> in *buildings* having only *suites* of Group A, D or E *occupancy* where such *suite* is completely cut off from the remainder of the *building*.

(7) Except as permitted in Sentence (8), and except for doors with power operators, closers for doors in a *barrier-free* path of travel shall be designed to permit doors to open when a force of not more than 38 N is applied to the handles, push plates or latch-releasing devices in the case of exterior doors and 22 N in the case of interior doors.

(8) Sentence (7) does not apply to doors at the entrances to *dwelling units*, or where greater forces are required in order to close and latch the doors against prevailing differences in air pressures on opposite sides of the doors.

(9) Except for doors at the entrances to *dwelling units*, closers for interior doors in a *barrier-free* path of travel shall have a closing period of not less than 3 seconds measured from when the door is in an open position of 70° to the doorway, to when the door reaches a point 75 mm from the closed position, measured from the leading edge of the latch side of the door.

(10) Every door equipped with a closer in a *barrier-free* path of travel shall have a clear space beyond the latch side of not less than

- (a) 600 mm where the door swings towards the approach side, and
- (b) 300 mm where the door swings away from the approach side.

(11) Vestibules located in a *barrier-free* path of travel shall be arranged to allow the movement of wheel-chairs between doors and shall

- (a) provide a distance between 2 doors in series of at least 1 200 mm plus the width of any door that swings into the space in the path of travel from one door to another.

(12) Where a vision panel is provided in a door in a *barrier-free* path of travel, such panel shall be at least 75 mm in width and be located so that

- (a) the bottom of the panel is not more than 900 mm above the finished floor, and
- (b) the edge of the panel closest to the latch is not more than 200 mm from the latch side of the door.

#### 3.7.3.4. Ramps

(1) Ramps located in a *barrier-free* path of travel shall

- (a) have a minimum width of 870 mm between handrails,
- (b) have a maximum gradient of 1 in 12
- (c) have a level area of at least 1.5 m by 1.5 m at the top and bottom of a ramp and where a door is located in a ramp, so that the level area extends at least 600 mm beyond the latch side of the door opening, except that where the door opens away from the ramp, the area extending beyond the latch side of the door opening may be reduced to 300 mm
- (d) have a level area at least 1.5 m long and at least the same width as the ramp
  - (i) at intervals of not more than 9 m along its length, and
  - (ii) where there is an abrupt change in the direction of the ramp,
- (e) except as provided in Sentence (2), be equipped with handrails and *guards* on both sides conforming to Articles 3.4.6.4. and 3.4.6.5, and
- (f) be provided with a curb at least 50 mm high on any side of the ramp where no solid enclosure or *guard* is provided.

(2) Where a ramp serves as an aisleway for fixed seating, the requirements for handrails in Clause 3.7.3.4.(1) (e) need not apply.

(3) Floors or walks in a *barrier-free* path of travel having a slope steeper than 1 in 20 shall be designed as ramps.

#### 3.7.3.5. Elevators

(1) The passenger-type elevator in Article 3.7.2.1. shall conform to Appendix E of CSA B44, "Safety Code for Elevators, Escalators, Dumbwaiters, Moving Walks and Freight Platform Lifts".

(2) The passenger-type elevating device in Article 3.7.2.1. shall conform to CAN3-B355, "Elevating Devices for the Handicapped".

#### 3.7.3.6. Spaces in Seating Area

(1) Spaces designated for wheelchair use in Sentence 3.7.2.1.(2) shall be

- (a) clear and level or level with removable seats,
- (b) 840 mm in width and 1 525 mm in length to permit wheelchairs to enter from a side approach, and 1 220 mm in length where the wheelchair enters from the front or rear of the space,
- (c) located adjoining a *barrier-free* path of travel without infringing on egress from any row of seating or any aisle requirements, and
- (d) where more than two wheelchair spaces are required by Sentence 3.7.2.1.(2),
  - (i) arranged so that at least two designated spaces are side by side, and
  - (ii) situated, as part of the designated seating plan, to provide a choice of viewing location.

#### 3.7.3.7. Assistive Listening Devices

(1) In *buildings of assembly occupancy*, all classrooms, auditoria, meeting rooms and *theatres* with an area of more than 100 m<sup>2</sup> and an *occupant load* of more than 75 shall be equipped with assistive listening systems encompassing the entire seating area.



**3.7.3.8. Water Closet Stalls**

(1) Where a washroom is required by Article 3.7.2.3. to *barrier-free*, at least 1 water closet stall or enclosure shall

- (a) be at least 1.5 m in width by 1.5 m in depth,
- (b) be equipped with a door which shall
  - (i) be capable of being locked from the inside with a locking mechanism that is operable by one hand,
  - (ii) provide, when the door is in an open position, a clear opening of at least 810 mm,
  - (iii) swing outward, unless 760 mm by 1220 mm clear floor area is provided within the stall or enclosure to permit the door to be closed without interfering with the wheelchair,
  - (iv) be provided with a door having spring-type or gravity hinges so that the door closes automatically,
  - (v) be provided with a door pull on the outside, near the latch side of the door, and
  - (vi) be aligned with the clear manoeuvring space adjacent to the water closet,
- (c) have a water closet located so that its centreline is not less than 460 mm and not more than 480 mm from an adjacent side wall on 1 side,
- (d) be equipped with grab bars which shall
  - (i) be at least 760 mm in length and mounted at a 30° to 50° angle sloping upwards, away from the water closet with the lower end of the bar mounted 230 mm above the toilet seat and 50 mm in front of the toilet bowl, or alternatively, be L-shaped with 760 mm long horizontal and vertical components mounted with the horizontal component 230 mm above the toilet seat and the vertical component 150 mm in front of the toilet bowl,
  - (ii) be at least 600 mm in length mounted horizontally on the wall behind the water closet from 840 mm to 920 mm above the floor and, where the water closet has a water tank, be mounted 150 mm above the tank,
  - (iii) Reserved.,
  - (iv) be installed to resist a load of at least 1.3 kN applied vertically or horizontally,
  - (v) be not less than 30 mm and not more than 40 mm in diameter, and
  - (vi) have a clearance of 30 mm to 40 mm from the wall,
- (e) be equipped with a coat hook mounted not more than 1 200 mm above the floor on a side wall and projecting not more than 25 mm from the wall, and
- (f) have a clearance of at least 1 700 mm between the outside of the stall face and the face of an in-swinging washroom door and 1 400 mm between the outside of the stall face and any wall-mounted fixture or other obstruction.

**3.7.3.9. Water Closets**

(1) Water closets for disabled persons shall

- (a) be equipped with seats located at not less than 407 mm and not more than 445 mm above the floor level,
- (b) be equipped with hand-operated flushing controls that are easily accessible to a wheelchair user,
- (c) be equipped with a back support such as a seat lid, and
- (d) not have a spring-activated seat.

**3.7.3.10. Lavatories**

(1) *Barrier-free* washrooms shall

- (a) be provided with a lavatory which shall

- (i) be located so that the distance between the centreline of the fixture and the side wall is not less than 460 mm,
  - (ii) have a clearance of at least 710 mm beneath the bottom of the lavatory to a point at least 260 mm in from the front,
  - (iii) have insulated waste outlet and hot water supply pipes to prevent burns or have water supply temperature limited to a maximum of 43°C,
  - (iv) have faucet handles of the lever type that are not spring-loaded, and are located so that the distance from the centreline of the faucet to the edge of the basin or, where the basin is mounted in a vanity, to the front edge of the vanity, is not more than 485 mm,
  - (v) have no shelves or other projections located above it so as to create a hazard, and
  - (vi) be mounted so that the top of the lavatory or, where the lavatory is in a vanity, the top of the vanity is not more than 840 mm above the finished floor,
- (b) have soap and towel dispensers that are
- (i) located to be accessible to persons in wheelchairs and so that the dispensing height is not more than 1 200 mm above the floor, and
  - (ii) operable with a single hand, and
- (c) have dispensing or hand-operated washroom accessories, except those located in toilet stalls or described in Clauses (a) or (b), mounted so that the dispensing height is between 900 mm and 1 200 mm above the floor.

### 3.7.3.11. Special Washrooms

(1) Where a special washroom is provided primarily for the use of disabled persons of both sexes in lieu of facilities for disabled persons in washrooms used by the general public, such washrooms shall

- (a) be equipped with doors capable of being locked from the inside with one hand and provided with a means of emergency release from the outside,
- (b) be provided with a lavatory conforming to Article 3.7.3.10.,
- (c) be equipped with a water closet conforming to Article 3.7.3.9.,
- (d) be equipped with grab bars conforming to Clause 3.7.3.8.(1) (d),
- (e) Reserved.,
- (f) have clearances for fixtures and accessories conforming to the fixture clearances described in Articles 3.7.3.8. to 3.7.3.10.,
- (g) have a doorway conforming to Article 3.7.3.3.,
- (h) provide an unobstructed circular turning area at least 1.5 m in diameter, and
- (i) be equipped with a coat hook conforming to Clause 3.7.3.8.(1) (e) and a shelf not more than 1 200 mm above the floor in a location accessible to a wheelchair user.

### 3.7.3.12. Showers

(1) Where individual shower stalls are provided in *buildings of assembly occupancy*, at least one shower stall shall be *barrier-free* and shall

- (a) be at least 1 500 mm in width and 900 mm in depth,
- (b) have a clear floor space at the entrance to the shower of at least 900 mm in depth and the same width as the shower, except that fixtures are permitted to project into that space provided they do not restrict access to the shower,
- (c) have a slip-resistant floor surface,
- (d) have a bevelled threshold not exceeding 13 mm in height above the finished floor,
- (e) be equipped with a wall mounted folding seat that is not spring-loaded or provision for a portable seat that is,

- (i) 38 mm to 62 mm less than the shower compartment depth in width by 430 mm to 530 mm in depth,
  - (ii) mounted approximately 450 mm above the floor, and
  - (iii) designed to carry a minimum load of 1.33 kN,
- (f) be equipped with a grab bar which shall
- (i) be at least 900 mm in length,
  - (ii) be mounted approximately 850 mm above the floor,
  - (iii) be located on the wall so that at least 300 mm of its length is reachable from one side of the seat, and
  - (iv) conform to Subclauses 3.7.3.8.(1) (d) (iv), (v) and (vi),
- (g) be equipped with a pressure-equalizing or thermostatic mixing valve controlled by lever or other device operable with a closed fist from the seated position,
- (h) be equipped with a hand-held shower head with at least 1 500 mm of flexible hose located so that it can be reached from the seated position and equipped with a support so that it can operate as a fixed shower head, and
- (i) have fully recessed soap holders which can be reached from the seated position.

(2) Individual shower stalls that are provided for use by residents and patients in *buildings* of Group B, Division 2 *institutional occupancy* shall conform to the requirements of Clauses (1) (a) to (i).

(3) Individual bathtubs that are provided for the use of residents and patients in Group B, Division 2 *institutional occupancies*

- (a) shall have faucet handles of the lever type that are not spring-loaded,
- (b) shall have faucet handles that are located so as to be usable by a person seated in the bathtub, and
- (c) shall have mounted on the wall, unless the bathtub is free-standing, an "L"-shaped grab bar conforming to Subclauses 3.7.3.8.(1) (d) (iv) to (vi)
  - (i) with each leg of the "L" being at least 900 mm long,
  - (ii) with the legs of the "L" being separated by 90°,
  - (iii) with the horizontal leg of the "L" being located between 150 mm and 200 mm above and parallel to the rim of the bathtub, and
  - (iv) with the vertical leg of the "L" being located between 300 mm and 450 mm from the control end of the bathtub.

**3.7.3.13. Reserved.**

**3.7.3.14. Shelves or Counters for Telephones**

- (1) Where built-in shelves or counters are provided for public telephones, they shall be level and shall
- (a) be not less than 350 mm deep, and
  - (b) have, for each telephone provided, a clear space not less than 250 mm wide having no obstruction within 250 mm above the surface.
- (2) The top surface of a section of the shelf or counter described in Sentence (1) serving at least one telephone shall
- (a) be not more than 865 mm from the floor, and
  - (b) have a knee space not less than 685 mm high.

(3) Where a wall-hung telephone is provided above the shelf or counter section described in Sentence (2), it shall be located so that the receiver and coin slot are not more than 1.2 m from the floor.

**3.7.3.15. Drinking Fountains**

- (1) Where drinking fountains are provided, at least one shall be *barrier-free* and shall

- (a) have a spout located near the front of the unit not more than 915 mm above the floor, and
- (b) be equipped with controls that are easily operated from a wheelchair using one hand with a force of not more than 22 N.

### Section 3.8 Signs

#### 3.8.1. Scope

**3.8.1.1. Application.** Except as provided otherwise in Article 3.8.1.2. this Section shall apply to the erection of all signs.

#### 3.8.1.2. Exceptions

- (1) The following signs shall not be subject to the provisions of this Section,
  - (a) signs for regulating traffic or similar devices, legal notices or warnings at railroad crossings,
  - (b) signs in display windows including writing, representation, painting or lettering directly on the surface of any window or door, or other signs not affixed to the *building* interior,
  - (c) small signs displayed for the direction of the public including signs which identify rest rooms, freight entrances and such other similar directional signs,
  - (d) signs painted directly on a *building*, and
  - (e) incidental signs or other signs subject to municipal approval.

#### 3.8.2. Alterations

**3.8.2.1. Exceptions for Alterations.** The changing of movable parts of signs that are designed for changes, or the repainting of display matter shall not be deemed to be alterations.

#### 3.8.3. Structural Requirements

**3.8.3.1. Structural Design.** Except as provided herein, all sign structures shall be designed in accordance with Part 4.

#### 3.8.3.2. Professional Design

- (1) A sign structure shall be designed by an *architect* or *professional engineer* where it is,
  - (a) a ground sign which exceeds 7.5 m in height above the adjacent finished ground,
  - (b) a projecting sign which weighs more than 115 kg, or
  - (c) any one face of a roof sign which exceeds 10 m<sup>2</sup>.
- (2) A projecting sign shall not be attached or fastened in any manner to a parapet wall unless designed by an *architect* or *professional engineer*.

#### 3.8.4. Plastic Sign Facing Materials

##### 3.8.4.1. Combustible Sign Faces

- (1) Plastic materials used in the construction of sign faces shall,
  - (a) have an average burning rate not greater than 65 mm/min in sheets 1.5 mm thick when tested in accordance with ASTM D635, "Rate of Burning and/or Extent and Time of Burning of Self-supporting Plastics in a Horizontal Position",
  - (b) have an average burning rate not greater than 140 mm/min when tested in accordance with ASTM D568, "Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position", and
  - (c) have a measurement of material thickness in accordance with Method B-Machinists' Micrometer Without Ratchet of ASTM D374, "Thickness of Solid Electrical Insulation".
- (2) Except as provided in Sentence (3), where the *exterior cladding* of a wall is required to be *noncombustible*, a plastic sign face or a group of contiguous plastic sign faces may be placed over such cladding provided each such sign face or group of contiguous sign faces,
  - (a) does not exceed 30 per cent of the wall area of the *storey* on which it is installed,
  - (b) does not exceed 15 m<sup>2</sup> in area or 1.2 m in height at each *storey*, and



- (c) when located above the *first storey*, is vertically separated from other plastic sign faces by 1.2 m of *noncombustible construction* unless separated by a horizontal *noncombustible* projection such as a canopy, extending the full width of, and projecting at least 900 mm beyond the exterior sign face.

(3) Where a plastic exterior sign is mounted as a face on a metal sign box that is at least 200 mm in depth, the requirements of Sentence (2) need not apply provided the sign box is mounted on a *noncombustible* exterior wall.

(4) Notwithstanding the requirements of Sentence (5), the plastic portion of an interior sign placed over or forming part of an interior wall surface in corridors, covered or enclosed *walkways* at or above *grade* in *buildings* shall,

- (a) not exceed 15 per cent of the wall area in, or over which it may be installed,
- (b) be supported by a device that will not detrimentally affect the *fire-resistance rating* of the interior wall to which it is attached or of which it may form a part, and encase the edges of the plastic sign face in metal,
- (c) not be positioned or sized in such a manner that it is less than 600 mm from the vertical line separating two adjacent premises,
- (d) be placed so that there is at least 600 mm vertical separation of noncombustible material between the top of the plastic sign surface and the ceiling surface,
- (e) be permitted to have an increase of 100 per cent in area required in Clause (a) and a decrease of 50 per cent of the separation distances required in Clauses (c) and (d) if the area is *sprinklered*, and
- (f) not have a *flame-spreading rating* above 250.

(5) Signs in *exits* and underground *walkways* shall have a *flame-spread rating* of not more than 25.

### 3.8.5. Location Restrictions

**3.8.5.1. Obstructions not Permitted.** No sign shall be located so as to obstruct openings required for light and ventilation, any required *means of egress* or required access for fire fighting in accordance with Sentence 3.2.5.4.(2).

### 3.8.5.2. Clearance for Exterior Signs

(1) No exterior sign shall be erected overhanging a sidewalk or other pedestrian *walkway* unless the vertical distance, measured from the bottom of the overhanging portion of the sign to the surface of the sidewalk, is at least 2.4 m.

(2) Except as provided hereinafter, no sign face shall be erected within 600 mm of the vehicular travelled portion of a private lane or roadway, or of a motor vehicle parking area unless the minimum vertical distance between *grade* and the bottom of the overhanging sign face is at least 4.25 m.

(3) Where the height of all vehicles using any private road or parking area is permanently restricted, the vertical distance in Sentence (2) may be reduced to the amount of the actual height restriction, for as long as the said height restriction is in existence on the premises.

**3.8.5.3. Support on Existing Building.** No sign shall be supported by an existing *building*, parapet wall, or other structure, or any part thereof, unless the *building* or structure is adequate to support, without reducing the safety factors provided, all loads to which it may be subjected, including those loads resultant from or caused by the erection of the sign such as wind and snow loads, and is fully capable of safely transferring said loads through its structural members to *soil* having adequate load-carrying or load-resisting capacity.

**3.8.5.4. Wind Forces.** Materials subjected to wind forces used in the construction of signs shall be of sufficient strength and shall be installed to withstand a design external pressure or suction due to wind.

**3.8.5.5. Thermal Forces.** Materials subjected to thermal forces shall be installed so that their expansion and contraction over the temperature ranges to which the materials are likely to be subjected will not dislodge the materials from their assigned positions.

## Section 3.9 Portable Classrooms

### 3.9.1. Scope

#### 3.9.1.1. Application

(1) Except as provided in this Section, the requirements in the Code apply to portable classrooms.

(2) Where there are more than 12 portable classrooms on a site, the exceptions in Sentences 3.9.3.3.(2) and 3.9.3.4.(1) do not apply.

**3.9.1.2. Heating Systems.** Heating systems and equipment in a portable classroom shall be designed and installed in accordance with Section 6.2.

### **3.9.2. Interior Finish**

**3.9.2.1. Flame-Spread Rating.** Interior finish material used on a wall or ceiling of a portable classroom shall have a *flame-spread rating* of 150 or less.

### **3.9.3. Application**

#### **3.9.3.1. Building Areas**

(1) A single portable classroom shall be not more than 100 m<sup>2</sup> in *building area*, and not more than 1 *storey* in *building height*.

(2) For the purposes of Subsection 3.2.2., where the horizontal distance between portable classrooms is less than 6 m, a group of portable classrooms may be considered as a single *building* with a *building area* equal to the aggregate area of the portable classrooms.

#### **3.9.3.2. Spatial Separations**

(1) The requirements in Subsection 3.2.3. need not be provided between individual portable classrooms where the distance between the classrooms is 6 m or more.

(2) The requirements in Subsection 3.2.3. need not be provided between individual portable classrooms within a group where

- (a) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more, or
- (b) the portable classrooms are in groups where
  - (i) the *means of egress* for each classroom within a group is by a common corridor or passageway,
  - (ii) the number of portable classrooms in a group is not more than 6, and
  - (iii) the distance between groups of portable classrooms is 12 m or more.

#### **3.9.3.3. Fire Alarm Systems**

(1) Except as provided in Sentence (2), the fire alarm system in the main school *building* shall be extended to the portable classrooms with a separate zone indicator on the annunciator.

(2) The requirements in Sentence (1) need not be provided where

- (a) the distance between portable classrooms is 6 m or more,
- (b) the distance between portable classrooms is less than 6 m and the requirements of Subsection 3.2.3. are applied between the classrooms, or
- (c) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group does not exceed 6,
  - (iii) within a group of classrooms, the facing walls have a *fire-resistance rating* of 45 min, rated from inside the classroom, and
  - (iv) the distance between groups of classrooms is 12 m or more.

#### **3.9.3.4. Provisions for Fire Fighting**

(1) The requirements in Articles 3.2.2.6. and 3.2.5.1. to 3.2.5.8. need not be provided where

- (a) the distance between portable classrooms is 6 m or more,

- (b) the distance between portable classrooms is less than 6 m and the requirements of Subsection 3.2.3. are applied between the classrooms,
- (c) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6,
  - (iii) within a group of classrooms, the facing walls have a *fire-resistance rating* of 45 min, rated from inside the classroom, and
  - (iv) the distance between groups of classrooms is 12 m or more,
- (d) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more, or
- (e) the portable classrooms are in groups where
  - (i) the *means of egress* for each classroom within a group is by a common corridor or passageway
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more.

**3.9.3.5. Portable Fire Extinguishers.** A fire extinguisher, in accordance with Article 3.2.5.17., shall be installed in each portable classroom.

**3.9.3.6. Means of Egress**

(1) Except as required in Sentence (2), a portable classroom shall be provided with *means of egress* conforming to Sections 3.3 and 3.4.

(2) A portable classroom shall be provided with at least 2 *means of egress* where the classroom contains a fuel-fired *appliance* which is not separated from the remainder of the classroom by a *fire separation* having a *fire-resistance rating* of 45 min or more.

**3.9.3.7. Fuel-Fired Appliances**

(1) Except as provided in Sentence (2), where a portable classroom contains a fuel-fired *appliance*, the *appliance* shall be separated from the remainder of the classroom by a *fire separation* having a *fire-resistance rating* of not less than

- (a) 1.5 h where the horizontal distance between portable classrooms is 1.5 m or less, and
- (b) 45 min where the horizontal distance between portable classrooms is more than 1.5 m but less than 6 m.

(2) Where the horizontal distance between portable classrooms is 6 m or more, a fuel-fired *appliance* need not be separated from the remainder of the classroom by a *fire separation* provided

- (a) there is not more than 1 *appliance* per portable classroom, and
- (b) the *appliance* is located not less than 4.5 m from an *egress* doorway or an *exit* from the portable classroom.

**3.9.3.8. Washroom Facilities.** Washroom facilities need not be provided in a portable classroom where the facilities in the main school *building* comply with the requirements of Subsection 3.6.4. for the total *occupant load* of the main school *building* and the portable classrooms.

**3.9.3.9. Barrier-Free Access.** The requirements of Section 3.7 for *barrier-free access* need not be provided for a portable classroom provided that the main school *building* complies with the requirements of Section 3.7.

**Section 3.10 Self-Service Storage Buildings**

**3.10.1. Scope**

**3.10.1.1. Application.** Except as provided in this Section, the requirements in the Code apply to *self-service storage buildings*.

**3.10.2. Requirements for all Buildings****3.10.2.1. Occupancy Classification****(1) A self-service storage building**

- (a) shall comply with the requirements for a Group F, Division 2 *major occupancy*, and
- (b) shall not contain a Group F, Division 1 *occupancy*.

**3.10.2.2. Occupant Load.** The requirements based on *occupant load* shall not apply.**3.10.2.3. Structural Fire Protection**

(1) Except as provided in Sentence (2) and Sentence 3.10.4.2.(1), the requirements in Subsections 3.2.1. and 3.2.2. shall apply.

(2) The *first storey* shall be subdivided into areas not more than 500 m<sup>2</sup> by a masonry or reinforced concrete *fire separation* having a *fire-resistance rating* of not less than 1 h, or it shall be *sprinklered*.

**3.10.2.4. Safety Requirements Within Floor Areas**

(1) Except as provided in Sentences (2) to (12), the requirements in Section 3.3 shall apply.

(2) A corridor need not be constructed as a *public corridor* where the travel distance, measured from inside the rental space to the nearest *exit*, is not more than 15 m provided that the corridor walls

- (a) are of *noncombustible construction*,
- (b) have no openings other than doors and the doors are of solid construction, and
- (c) are continuous from the floor to the underside of the floor above, the ceiling or the roof.

(3) Where the *building* is *sprinklered*, doors in a *public corridor* do not require to be equipped with self-closing devices and latches provided that the travel distance is measured from inside the rental space to the nearest *exit*.

(4) Egress doors from a rental space are not required to swing in the direction of *exit* travel or swing on a vertical axis provided

- (a) the area of the rental space is not more than 50 m<sup>2</sup>, and
- (b) the distance of travel within the rental space is not more than 10 m.

(5) Where egress doors from a rental space open onto a corridor and swing in the direction of *exit* travel, the corridor shall be not less than 1 500 mm wide, and the doors shall be not more than 914 mm wide.

(6) Where egress doors from a rental space open onto a corridor and do not swing in the direction of *exit* travel, the corridor shall be not less than 1 100 mm in wide.

(7) Dead end corridors are not permitted.

(8) Corridors shall be provided with

- (a) natural lighting which shall be uniformly distributed and be at least 4 per cent of the corridor area, or
- (b) emergency lighting, conforming to Sentences 3.2.7.4.(1) and (2), which shall provide average levels of illumination of not less than 10 lx at floor level.

(9) Not more than two *dwelling units* shall be contained within one of the *buildings* on the property.

(10) *Dwelling units* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(11) A *fire separation* is not required between a *dwelling unit* and an office where the office is not more than 50 m<sup>2</sup> in area.

(12) The *fire separations* required in Sentence 3.3.1.1.(1) need not be provided between individual rental spaces.

**3.10.2.5. Exit Requirements**

(1) Except as provided in Sentences (2) and (3), the requirements in Section 3.4 shall apply.

(2) The clear width of an *exit* stair shall be not less than 1 100 mm.



(3) *Exit* doors from rental spaces are not required to swing on a vertical axis provided,

- (a) the area of the rental space is not more than 50 m<sup>2</sup>, and
- (b) the travel distance within the rental space is not more than 10 m.

### 3.10.2.6. Service Facilities

(1) Except as provided in Sentence (2), the requirements in Section 3.5 shall apply.

(2) Except where located in and serving only the *dwelling units*, a fuel-fired *appliance* shall be located in a *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

### 3.10.2.7. Sanitary Facilities

(1) Except as provided in Sentence (2), the requirements in Subsection 3.6.4. shall apply.

(2) Except as permitted in Sentences 3.6.4.1.(2) and (3), two washrooms, each containing a water closet and a lavatory, shall be provided within one of the *buildings* on the property.

### 3.10.3. Additional Requirements for Buildings Containing more than 1 Storey

**3.10.3.1. Application.** The requirements in this Subsection apply to all *buildings* except a 1 *storey building* which does not contain a *basement* or *mezzanine*.

### 3.10.3.2. Spatial Separations

(1) Except as provided in Sentence (2), the requirements in Subsection 3.2.3. shall apply.

(2) The distance between *buildings* shall be not less than 9 m.

### 3.10.3.3. Fire Alarm Systems

(1) Except as provided in Sentences (2) and (3), the requirements in Subsection 3.2.4. shall apply.

(2) A fire alarm system shall be installed.

(3) Within the *first storey*, manual pull stations are required only in corridors.

### 3.10.3.4. Provisions for Fire Fighting

(1) Except as provided in Sentences (2) to (4), the requirements in Subsection 3.2.5. shall apply.

(2) Access routes for fire department vehicles shall be provided and shall be not less than 9 m wide.

(3) Hydrants shall be located in the access routes required in Sentence (2) so that,

(a) for a *building* provided with a fire department connection for a standpipe and hose system or a sprinkler system,

(i) a fire department pumper vehicle can be located adjacent to a hydrant, and

(ii) the unobstructed path of travel for the firefighter from the vehicle to the fire department connection is not more than 45 m, and

(b) for a *building* which is not *sprinklered*, a fire department pumper vehicle can be located in the access route so that the unobstructed path of travel for the firefighter is not more than

(i) 45 m from the hydrant to the vehicle, and

(ii) 45 m from the vehicle to every opening in the *building*.

(4) Hose stations are not required in the *first storey*.

### 3.10.3.5. Standpipe and Hose Systems

(1) Except as provided in Sentence (2), the requirements in Subsection 3.2.9. shall apply.

(2) Hose stations are not required in the *first storey*.

### 3.10.4. Additional Requirements for 1 Storey Buildings

**3.10.4.1. Application.** The requirements in this Subsection apply to 1 *storey buildings* which do not contain a *basement* or *mezzanine*.

**3.10.4.2. Building Area**

- (1) For the purposes of Subsection 3.2.2., *building area* means,
- (a) the *building area* of each *building*,
  - (b) the total of the *building areas* of all *buildings* as a group, or
  - (c) the total of the *building areas* of any number or group of *buildings*.

**3.10.4.3. Spatial Separations**

- (1) Except as provided in Sentences (2) to (4), the requirements in Subsection 3.2.3. shall apply.
- (2) Where the *building area* conforms to Clause 3.10.4.2.(1) (b), the *limiting distance* requirements shall not apply between individual *buildings*.
- (3) Where the *building area* conforms to Clause 3.10.4.2.(1) (c),
- (a) the *limiting distance* requirements shall apply between each group of *buildings*, but not between individual *buildings* within a group, and
  - (b) the distance between each group of *buildings* shall be not less than 9 m.
- (4) The distance between individual *buildings* within a group shall be not less than 6 m.

**3.10.4.4. Fire Alarm Systems**

- (1) Except as provided in Sentence (2), the requirements in Subsection 3.2.4. shall not apply.
- (2) The requirements for *smoke alarms* in Article 3.2.4.21. shall apply to a *dwelling unit*.

**3.10.4.5. Provisions for Fire Fighting**

- (1) Except as provided in Sentences (2) to (7), the requirements in Subsection 3.2.5. shall not apply.
- (2) Access routes for fire department vehicles shall be provided and shall be not less than 9 m wide.
- (3) Hydrants shall be located in the access routes required in Sentence (2) so that the locations conform to Sentence 3.10.3.4.(3).
- (4) The access routes required in Sentence (2) shall conform to the requirements in Sentence 3.2.5.7.(1).
- (5) An adequate water supply for fire fighting shall be provided for every *building*.
- (6) Where a sprinkler system is installed, the system shall conform to the requirements in Articles 3.2.5.13., 3.2.5.16. and 3.2.5.18.
- (7) Where *combustible* sprinkler piping is installed, it shall conform to the requirements in Article 3.2.5.14.

**Section 3.11 Public Pools****3.11.1. General****3.11.1.1. Application**

- (1) This Regulation applies to every *public pool*.
- (2) This Section applies to the design and construction of site assembled and manufactured pools that are intended for use as *public pools*.

**3.11.2. Designations of Public Pools****3.11.2.1. Pool Designations**

- (1) Every *public pool* shall be designated as being either a Class A pool or a Class B pool in accordance with Sentence (2) or (3).
- (2) A Class A pool is a *public pool* to which the general public is admitted or that is
- (a) operated in conjunction with or as a part of a program of an educational, instructional, physical fitness or athletic institution or association, supported in whole or in part by public funds or public subscription, or
  - (b) operated on the premises of a *recreational camp*, for use by campers and their visitors and camp personnel.

(3) A Class B pool is a *public pool* that is

- (a) operated in conjunction with six or more *dwelling units, suites*, single family residences, or any combination thereof for the use of occupants or residents and their visitors,
- (b) operated in conjunction with a mobile home park for the use of residents or occupants and their visitors,
- (c) operated on the premises of a *hotel* or motel for the use of its guests and their visitors,
- (d) operated on the premises of a *campground* for the use of its tenants and their visitors,
- (e) operated in conjunction with a club for the use of its members and their visitors, or
- (f) operated in conjunction with an establishment or institution classified in Table 3.1.2.A. as,
  - (i) Group B, Division 1, *major occupancy*, or
  - (ii) Group B, Division 2, *major occupancy*, for the use of residents or occupants and their visitors.

### 3.11.3. Pool and Pool Deck Design and Construction Requirements for all Class A and Class B Pools

#### 3.11.3.1. Construction Requirements

(1) Except as otherwise required in Subsections 3.11.4., 3.11.5., 3.11.6., and 3.11.7. or otherwise exempted in Sentences (2) and (3), Class A pools and Class B pools shall be designed and constructed to comply with Sentences (2) to (24).

(2) Where a Class B pool is constructed for use solely in conjunction with a club, *day nursery, day camp* or establishment or institution for the care of persons who are infirm, aged or in custodial care, the pool shall be exempt from the requirements of Clause (8)(a) and Sentences (12) and (13).

(3) Where a Class B pool is constructed for use solely in conjunction with an establishment or institution for the treatment of persons who are disabled or ill, the pool shall be exempt from the requirements of Sentences (5) and (6), Clause (8)(a) and Sentences (12) and (13).

(4) Except for a *modified pool, wave action pool*, a pool for therapeutic use and a pool described in Sentence 3.11.5.1.(1), a public pool shall be constructed to have a water depth of not less than 750 mm.

(5) Except for a *modified pool* and *wave action pool*, the slope of the bottom of any portion of a *public pool* shall not exceed

- (a) 8 per cent (a slope of 2 in 25) where the water depth is 1.35 m or less,
- (b) 33 per cent (a slope of 1 in 3) where the water depth is more than 1.35 m and less than 2 m, and
- (c) 50 per cent (a slope of 1 in 2) where the water depth is 2 m or more.

(6) Except for a *modified pool* and *wave action pool*, where the slope of any portion of the bottom of a *public pool* is more than 8 per cent, the walls of the pool shall be equipped with recessed fittings to which a safety line supported by buoys can be attached across the surface of the water and the recessed fittings shall be installed at a horizontal distance of at least 300 mm measured from the vertical projection of the top of the slope in the direction of the shallow end of the pool.

(7) Except for a *modified pool, wave action pool* and a pool described in Sentence 3.11.5.1.(1), the side and end walls of a *public pool* shall be vertical from the top of the walls to within 150 mm of the bottom except at steps or recessed ladders or in water depths of 1.35 m or more.

(8) Except for a *modified pool* and *wave action pool* and except as provided in Sentence (10), a *public pool* shall be surrounded by a hard-surfaced *pool deck* that shall

- (a) except for a pool described in Sentence 3.11.5.1.(1), be not less than 1.80 m wide and provide at least 900 mm width of clear passage,
  - (i) behind any *diving board* and its supporting structure, and
  - (ii) between any column piercing the deck and the edge of the pool or between the column and outer perimeter of the *pool deck*,
- (b) in the case of an *outdoor pool*, be sloped away from the pool to waste drains or to adjacent lower ground at a slope of between 2 per cent and 4 per cent, and

- (c) in the case of an indoor pool, be impervious and sloped away from the pool to waste drains at a slope of between 1 and 4 per cent.

(9) Where a *public pool* is constructed with a ledge, the ledge shall

- (a) be placed only in parts of the pool where the water depth is 1.35 m or more,
- (b) be not more than 200 mm wide,
- (c) be at least 1 m below the water surface,
- (d) where located on the side of the pool, be gradually tapered towards the shallow end of the pool in such a manner as to prevent a harmful obstruction, and
- (e) have a band of contrasting colour along the entire juncture of the side and top of the ledge.

(10) Notwithstanding Sentences (11) to (15), where a *public pool* is constructed on any level surface with walls rising above that surface and has a constant water depth not exceeding 1.10 m and a water surface area not exceeding 100 m<sup>2</sup>, the *pool deck* may be an elevated platform surrounding the pool if it has

- (a) an unobstructed width of not less than 900 mm,
- (b) a height of at least 75 mm above grade or pavement elevation,
- (c) 6 mm wide openings for drainage, and
- (d) a non-slippery surface that is capable of being kept clean and disinfected.

(11) Except for a *modified pool* and *wave action pool*, where a *pool deck* projects over the water surface, the projection shall not exceed 50 mm.

(12) Except for a *modified pool* and *wave action pool*, the *pool deck* shall be separated from any adjacent spectator area or gallery and from any spectator access to such area or gallery by a gate or other barrier.

(13) Except for a *modified pool* and *wave action pool*, the perimeter of the *pool deck* shall be clearly delineated by painted lines or other means where any area contiguous to the *pool deck* may be confused with the deck.

(14) Perimeter drainage shall be provided where necessary to prevent surface run-off from draining onto the *pool deck*.

(15) Except for a *modified pool*, one or more hose bibs shall be installed near the perimeter of the *pool deck* in locations convenient for flushing the *pool deck*.

(16) Except for a *modified pool* and *wave action pool*, where access to the pool enclosure is over any surface that is not subject to regular cleaning and sanitizing, a foot spray to wash feet by means of a spray running freely to waste shall be provided at each such access.

(17) Except for a *modified pool* and *wave action pool*, at least one ladder or set of steps shall be provided in both the deep and shallow areas of a *public pool* for entry into and egress from the pool water.

(18) The *pool deck*, the submerged parts of a *public pool*, the walls or partitions adjacent to a *pool deck* and the pavement or floor adjacent to a *pool deck* shall have surfaces that permit thorough cleaning.

(19) Except for markings for safety or competition purposes, submerged surfaces in *public pools* shall be finished white or light in colour.

(20) Except in a *modified pool*, a black disc 150 mm in diameter on a white background shall be affixed to the bottom of a *public pool* within the area of its greatest depth.

(21) A *public pool* shall be equipped with lockable doors or other barriers capable of preventing public access to the *pool deck*.

(22) Except for a *modified pool*, *wave action pool* or a pool installed at a *recreational camp*, a Class A pool shall be provided with

- (a) where the water surface area is greater than 150 m<sup>2</sup> but not greater than 230 m<sup>2</sup>, at least one lifeguard control station, and
- (b) where the water surface area is greater than 230 m<sup>2</sup>, at least two lifeguard control stations.

(23) Except for a *modified pool*, every *public pool* shall display on the deck clearly marked figures, not less than 100 mm high, that set out



- (a) the water depths indicating the deep points, the breaks between gentle and steep bottom slopes and the shallow points,
- (b) the words **SHALLOW AREA** at one or more appropriate locations, and
- (c) where the water depth exceeds 2.5 m, the words **DEEP AREA** at one or more appropriate locations.

(24) Except for a *modified pool* and a pool to which Sentence 3.11.5.1.(4) applies, every *public pool* having a maximum water depth of 2.5 m or less shall display a warning notice posted in a location clearly visible to divers on which is printed in letters at least 150 mm high, the words **CAUTION—AVOID DEEP DIVES** or **SHALLOW WATER—NO DIVING**.

### 3.11.4. Public Pools Equipped with Diving Boards or Diving Platforms

#### 3.11.4.1. Diving Boards or Platforms

(1) No *diving board* or *diving platform* shall be installed in a *public pool* unless the requirements of Sentences (5) to (17) are met but the requirements for a *diving platform* do not apply to a *starting platform*.

(2) No *diving board* or *diving platform* shall be installed in a *modified pool* or a *wave action pool*.

(3) Where a *public pool* is equipped with a *diving board* or a *diving platform*, the board or platform shall have a non-slip surface.

(4) Where a *diving board* or a *diving platform* in a *public pool* is more than 600 mm above the water surface, the board or platform shall be equipped with one or more adjacent handrails.

(5) Where a *public pool* is equipped with a *diving board* or a *diving platform* not more than 3 m in height above the water surface, the pool shall be designed and constructed in conformance with Sentences (6) to (15).

(6) The depth of water in the area directly below a horizontal semi-circle in front of a *diving board* or *diving platform* having a radius of 3 m measured from any point on the front end of the board or platform shall not be less than

- (a) 2.75 m, where a board is 600 mm or less in height above the water surface,
- (b) 3 m, where a board or platform is greater than 600 mm but not more than 1 m in height above the water surface, and
- (c) 3.65 m, where a board or platform is greater than 1 m but not more than 3 m in height above the water surface,

as illustrated in Figure 3.11.4.A.

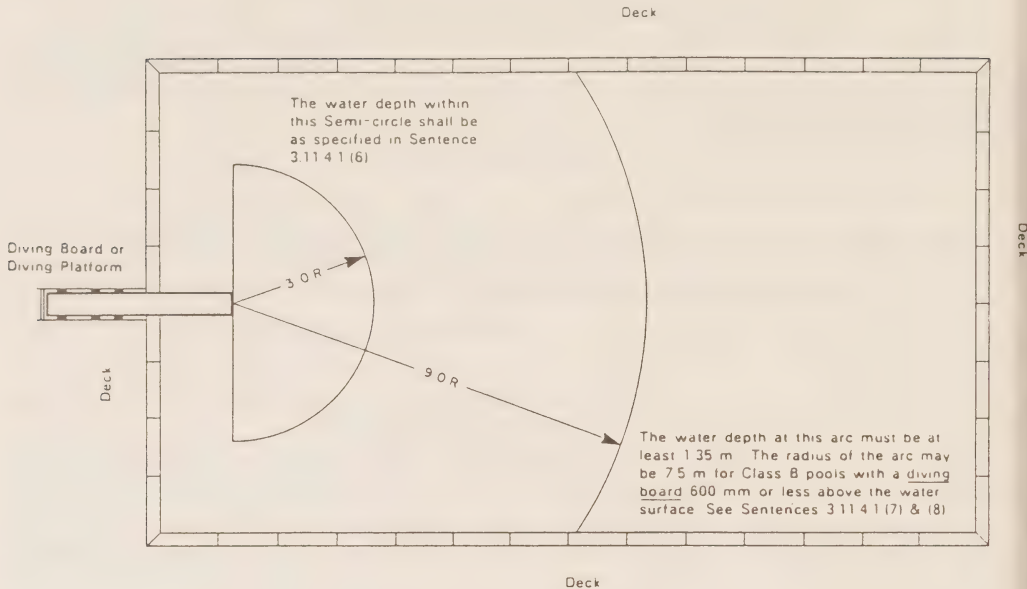
(7) Except as permitted in Sentence (8), the water depth in a *public pool* shall be at least 1.35 m at the horizontal arc having a radius of 9 m measured from any point on the front end of the *diving board* or *diving platform* and intersecting the vertical projections of the walls of the pool as illustrated in Figure 3.11.4.A.

(8) Where a Class B pool is equipped with a *diving board* 600 mm or less in height above the water

- (a) the water depth shall be at least 1.35 m at the horizontal arc having a radius of 7.5 m measured from any point on the front end of the *diving board*, and
- (b) a warning notice, on which is printed in letters at least 150 mm high, the words **DANGER—AVOID DEEP OR LONG DIVES**, shall be posted in a location clearly visible to divers,

as illustrated in Figure 3.11.4.A.

**Figure 3.11.4.A.**  
Forming Part of Sentences 3.11.4.1.(6) to (8)



(9) The slope of the bottom of a *public pool* having a *diving board* or *diving platform* shall not change by more than 17 per cent where the water depth is less than the applicable depth set out in Sentence (6) and greater than the depth set out in Sentence (7) or (8), as applicable.

(10) The horizontal distance between the vertical projection of the centre line of a *diving board* or *diving platform* and the vertical projection of the centre line of another board or platform shall be at least 2.75 m.

(11) The horizontal distance between the centre line of a *diving board* or *diving platform* and the vertical projection of the closest side or any ledge on the closest side of a *public pool* shall be at least

- (a) 3 m, where a *diving board* or *diving platform* is 1 m or less in height above the water surface, and
- (b) 3.6 m, where a *diving board* or *diving platform* is greater than 1 m in height above the water surface.

(12) A *diving board* or a *diving platform* 600 mm or less in height above the water surface shall project over the water a horizontal distance of at least 900 mm from the vertical projection of a pool wall under it.

(13) A *diving board* greater than 600 mm in height above the water surface shall project over the water a horizontal distance of at least 1.5 m from the vertical projection of the pool wall under it.

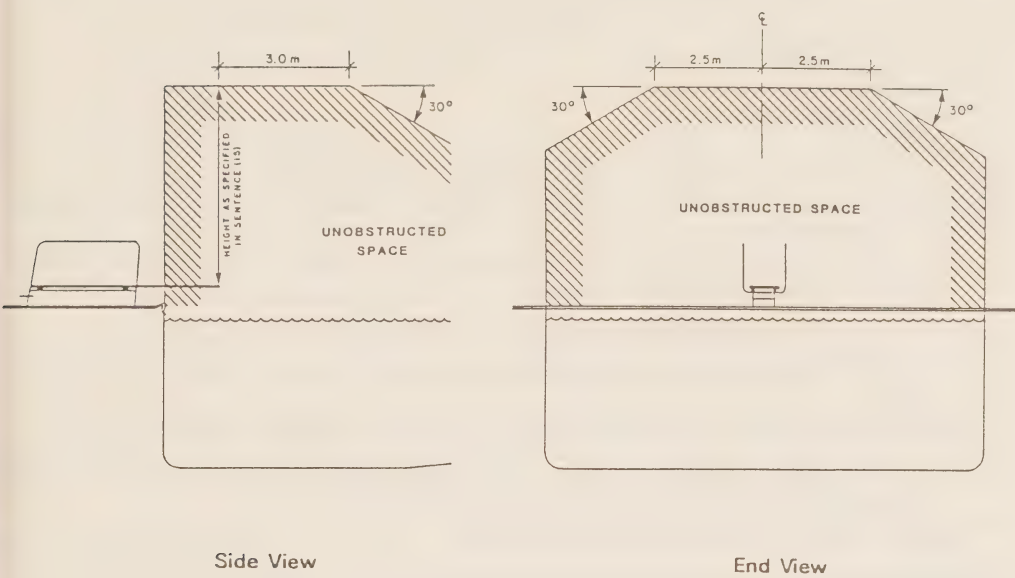
(14) A *diving platform* greater than 600 mm in height above the water surface shall project a horizontal distance of at least 1.2 m from the vertical projection of the pool wall under it.

(15) The space above a *diving board* or *diving platform* shall be unobstructed and shall consist of at least

- (a) a space having a width of 2.50 m on each side of the centre line of the board or platform, a length equal to the sum of the horizontal distance the board or platform projects over the water plus 3 m, and a height of
  - (i) 3.65 m above a *diving board* 3.65 m or less in length,
  - (ii) 5 m above a *diving board* greater than 3.65 m in length, or
  - (iii) 3 m above a *diving platform*, and

(b) the space below the planes originating from the front and sides of the uppermost horizontal plane of the space determined under Clause (a) and sloping downwards at 30° from the horizontal, as illustrated in Figure 3.11.4.B.

Figure 3.11.4.B.  
Forming Part of Sentence 3.11.4.1.(15)



(16) A diving board or diving platform greater in height than 3 m above the water surface shall be equipped with a gate, barrier or other device capable of preventing access thereto.

(17) Where a public pool is to be equipped with diving boards or diving platforms greater than 3 m in height above the water surface, the design of the diving boards or diving platforms and the corresponding water depths and clearances shall be in accordance with the "Rules and Laws Governing Swimming, Diving, Water Polo and Synchronized Swimming" published in 1984 by FINA.

3.11.5. Ramps into Public Pools in B2 Institutional Occupancies

3.11.5.1. Ramps into Pools

(1) Notwithstanding Sentences 3.11.3.1.(4) and (7) and Clause 3.11.3.1.(8) (a), where a public pool is constructed in a building containing a Group B, Division 2, major occupancy, and has a water depth not exceeding 1.5 m and a water surface area not exceeding 100 m<sup>2</sup>, the pool deck contiguous to not more than 50 per cent of the total perimeter of the pool may be replaced by one or more ramps that will permit a bather seated in a wheelchair to enter the water with or without the wheelchair.

(2) Where a public pool has one or more ramps as described in Sentence (1), the pool shall be designed and constructed to comply with Sentences (3) to (8).

(3) A ramp referred to in Sentence (1) shall have

- (a) a handrail having a height between 800 mm and 900 mm along each side of the ramp and running parallel to the slope of the ramp,
- (b) a width of at least 1.1 m,
- (c) a curb or other means to prevent a wheelchair from falling off the side of the ramp,

- (d) surface finishes capable of being kept clean, sanitary and free from slipperiness, and
  - (e) a landing at the bottom at least 1.5 m in length and the same width as the ramp.
- (4) Notwithstanding Sentence 3.11.3.1.(24), a warning notice, on which is printed in letters at least 150 mm high, the words **CAUTION—NO DIVING**, shall be posted conspicuously on each wall or fence line enclosing the pool.
- (5) There shall be a curb along the perimeter of the pool except at steps, ladders and ramp entrances.
- (6) The curb shall have
- (a) a height of 50 mm,
  - (b) rounded edges,
  - (c) a coved base, and
  - (d) a raised nosing at the top to serve as a fingerhold for a bather in the water.
- (7) Where a ramp that is not submerged is adjacent to the pool wall and is used for access to the water, the pool shall be constructed so that
- (a) the landing at the bottom of the ramp is at least 450 mm but not more than 550 mm below the top of the wall separating the ramp from the pool,
  - (b) the landing is equipped with a floor drain at its lowest point,
  - (c) the top of the wall between the pool and the ramp is at least 250 mm and not more than 300 mm in width,
  - (d) the *pool deck* is capable of accommodating a movable barrier separating the deck from the ramp,
  - (e) the water depth at the landing shall be accurately and clearly marked at the landing in figures at least 100 mm high on the top of the wall separating the pool from the ramp, and
  - (f) the ramp shall have a slope not exceeding 8 per cent.
- (8) Where a submerged ramp is adjacent to the pool wall and is used for access to the water, the pool shall be constructed so that
- (a) the water depth at the bottom of the ramp is at least 600 mm and not greater than 900 mm,
  - (b) a hard-surfaced area that is at least 750 mm wide is contiguous to the entire length of the part of the submerged ramp that pierces any part of the deck,
  - (c) the area described in Clause (b) is capable of accommodating a movable barrier that separates the area from the deck,
  - (d) the finishes in submerged portions of the ramps and curbs are different in colour or shade from each other and from that of the pool walls and bottom, and
  - (e) the submerged ramp has a slope not exceeding 11 per cent.

### 3.11.6. Modified Pools

#### 3.11.6.1. Construction Requirements

- (1) A *modified pool* is exempt from Sentences (4) to (8), (11) to (13), (15) to (17), (20), (22) to (24) of Article 3.11.3.1. and Sentence 3.11.8.1.(12).
- (2) A *modified pool* shall be designed and constructed to comply with Sentences (3) to (9).
- (3) A *modified pool* and its *pool deck* shall be constructed of hard-surfaced material that permits thorough cleaning.
- (4) The slope of the bottom of any portion of a *modified pool* shall not exceed 8 per cent.
- (5) The depth of the water in any portion of a *modified pool* shall not be more than 1.8 m.
- (6) A *modified pool* shall be surrounded on all sides by a hard-surfaced *pool deck* that shall
- (a) be at least 3 m wide,
  - (b) have a continuous crest surrounding the pool at least 100 mm above the pool water surface, and



(c) be sloped to shed water from the crest to the outer perimeter of the *pool deck*.

(7) A *modified pool* shall be provided with two or more drain fittings covered with protective grilles with openings having an aggregate area of at least 10 times the internal cross-sectional area of the outlet pipe or pipes connected to the *recirculation system* that is capable of completely draining the pool.

(8) Provision shall be made for lifeguard control stations adjacent to the edge of the water at intervals of not more than 60 m.

(9) The bottom of a *modified pool* shall be marked with continuous black contour lines

(a) 150 mm wide located where the water depth is 600 mm, and

(b) 300 mm wide located where the water depth is 1.2 m.

### 3.11.7. Wave Action Pools

#### 3.11.7.1. Construction Requirements

(1) A *wave action pool* is exempt from Sentences (4) to (8), (11) to (13), (16), (17) and (22) of Article 3.11.3.1. and Sentence 3.11.8.1.(12).

(2) A *wave action pool* shall be designed and constructed to comply with Sentences (3) to (11).

(3) The slope of the bottom of any portion of a *wave action pool*

(a) shall not exceed 8 per cent where the still water depth is less than 1 m, and

(b) shall not exceed 11 per cent where the still water depth is 1 m or more.

(4) The walls of a *wave action pool* shall be vertical from the water surface to within 150 mm of the bottom.

(5) There shall be a hard-surfaced *pool deck* at least 3 m wide immediately adjacent to the pool wall at the shallow end of the pool and at least 1.5 m wide immediately adjacent to all walls of the pool.

(6) Provision shall be made for two or more lifeguard control stations on each side of the *pool deck* adjacent to which the still water depth exceeds 1 m.

(7) Sets of steps or ladders recessed into pool side walls and having continuous vertical grab bars on each side thereof shall be located at intervals of not more than 7.5 m along portions of the pool where the still water depth exceeds 1 m, except that no steps or ladders shall be located within 3 m of the corners at the deep end of the pool.

(8) Except at recessed steps or ladders, the *pool deck* along each side of a *wave action pool* adjacent to which the water depth is 2.3 m or less shall be equipped with a barrier supported by posts or a wall that

(a) is 1 m in height,

(b) is located 1 m or less from the side of the pool, and

(c) has warning notices affixed thereto at intervals not exceeding 7.5 m signifying clearly that jumping and diving are prohibited along the sides of the pool.

(9) Skimming devices shall be designed and suitably located to remove surface film when no waves are induced in a *wave action pool*.

(10) A system capable of deactivating the wave-making equipment shall be installed with readily accessible push buttons located on the *pool deck* not more than 30 m apart, adjacent to each side and the deep end of the pool.

(11) A *wave action pool* shall be equipped with a first-aid room located within 50 m of the pool.

### 3.11.8. Recirculation and Vacuum Systems for Public Pools

#### 3.11.8.1. Recirculation and Vacuum Systems

(1) Every *public pool* shall be equipped with a *recirculation system* and vacuum system.

(2) For the purposes of this Subsection, the water in a *public pool* and its *recirculation system* shall be deemed not to be *potable water*.

(3) The water in a *public pool* and its *recirculation system* shall be separated from the *potable water* supply and from the sewer or drainage system into which it drains by air gaps or other devices that prevent

- (a) the water in the pool or its *recirculation system* from flowing back into the *potable water* supply, and
  - (b) the water in the sewer or drainage system from flowing back into the pool or its *recirculation system*.
- (4) The *recirculation system* and vacuum system of a *public pool* shall be designed, constructed and equipped to comply with Sentences (5) to (19).
- (5) The *recirculation system* of a *public pool* shall be capable of filtering, disinfecting and passing through the pool each day a volume of water of at least
- (a) in the case of a Class A pool, other than a *modified pool* or a *wave action pool*, four times the total water volume of the pool,
  - (b) in the case of a Class B pool, other than a *wave action pool*, three times the total water volume of the pool,
  - (c) in the case of a *modified pool*, three times the total water volume of the pool, and
  - (d) in the case of a *wave action pool*, six times the total water volume of the pool.
- (6) A *recirculation system* shall be equipped with a flow meter registering the rate of water flow.
- (7) A water meter shall be installed to register the volume of all *make-up water* added to a *public pool* or its *recirculation system*.
- (8) Equipment shall be installed to continuously disinfect the water in a *public pool* by means of,
- (a) a chlorination or hypochlorination system provided with a means for regulating the dosage of chlorine and capable of providing not less than
    - (i) in the case of an *outdoor pool*, other than a *wave action pool*, 300 g of chlorine per day per 10 000 L of total pool capacity,
    - (ii) in the case of an *indoor pool*, other than a *wave action pool*, 200 g of chlorine per day per 10 000 L of total pool capacity,
    - (iii) in the case of an *outdoor wave action pool*, 800 g of chlorine per day per 10 000 L of total pool capacity, and
    - (iv) in the case of an *indoor wave action pool*, 600 g of chlorine per day per 10 000 L of total pool capacity, or
  - (b) a bromination system capable of maintaining in the pool water a total bromine residual of 3 mg/L.
- (9) Gas chlorination equipment for a *public pool* shall contain a mechanism whereby the chlorine feed shall automatically terminate whenever the *recirculation system* ceases to supply *clean water* to the pool.
- (10) All exposed *potable water* piping and chlorine piping within a *public pool* water treatment service room shall be colour coded by means of
- (a) painting the entire outer surface of the piping, or
  - (b) coloured bands at least 25 mm in width that are spaced along the piping at intervals of not more than 1.2 m.
- (11) The colour coding referred to in Sentence (10) shall be yellow for chlorine and green for *potable water*.
- (12) Except for a *modified pool* and *wave action pool*, a *public pool* shall be equipped with overflow gutters or surface skimmers connected to the *recirculation system* that are capable of removing surface film from the surface of the water and withdrawing each day and discharging to the waste drains up to 15 per cent of the total volume of pool water.
- (13) A *public pool* shall be equipped with *clean water* inlets arranged in conjunction with surface skimmers or overflow gutters to provide uniform distribution and circulation of *clean water*.
- (14) All drainage fittings in a *public pool* shall be equipped with grilles or anti-vortex covers securely held in place by corrosion resistant fastenings that require a tool for removal and are galvanically compatible with the fittings and grilles or covers.
- (15) Except as provided in Sentence 3.11.6.1.(7) for a *modified pool* and for a pool that has a *recirculation system* flow rate of 3.0 L/s or less, a *public pool* shall
- (a) be provided with two or more main drains separated by at least 1.2 m, and

(b) be capable of being emptied through the drains in twelve hours or less.

(16) Where a *public pool* has a *recirculation system* flow rate of 3.0 L/s or less, the pool shall

(a) be provided with one or more main drains, and

(b) be capable of being emptied through the drain or drains in twelve hours or less.

(17) Except as provided in Sentence 3.11.6.1.(7) for a *modified pool*, the area of the openings in each main drain cover shall be such that the flow of water does not exceed

(a) 0.45 m/s through the openings of a grille, and

(b) 1.80 m/s through the openings of an anti-vortex fitting.

(18) The flow rate used to calculate the velocity referred to in Sentence (17) shall be the maximum possible rate of flow through the main drain taking into account all connections to the main drain and shall be calculated by adding the recirculation flow rate during normal operation of the pool to any additional flow caused by fixtures that draw water from the main drain.

(19) A *public pool* shall be equipped with a vacuum system for cleaning submerged surfaces.

### 3.11.9. Dressing Rooms, Locker Facilities, and Plumbing Facilities for all Public Pools

#### 3.11.9.1. Dressing Rooms and Sanitary Facilities

(1) Except as otherwise permitted in Sentences (2) and (3), every *public pool* shall be equipped with dressing rooms, locker rooms, shower heads, water closets, urinals, lavatories and drinking fountains which shall be designed, constructed and equipped to comply with Sentences (4) to (14).

(2) Where a Class A pool is installed on the premises of a *recreational camp*, dressing rooms, locker rooms, shower heads, water closets, urinals, lavatories and drinking fountains are not required if

(a) dressing, water closet and shower facilities are conveniently available for bathers elsewhere on the premises, and

(b) foot sprays are provided in accordance with Sentence 3.11.3.1.(16).

(3) Where a Class B pool is installed, dressing rooms, locker rooms, shower heads, lavatories, water closets, drinking fountains and urinals are not required if

(a) dressing, water closet and shower facilities are conveniently available elsewhere on the premises for bathers when the pool is open for use, and

(b) foot sprays are provided in accordance with Sentence 3.11.3.1.(16).

(4) The minimum number of water closets, urinals and lavatories shall be determined from Article 3.6.4.2. and Table 3.6.4.D. for an *occupant load* based on

(a) the formula in Sentence 3.1.16.3.(1) for all *public pools*, except a *wave action pool*, or

(b) the formula in Sentence 3.1.16.3.(2) for a *wave action pool*.

(5) A minimum of one shower head shall be provided for every 40 bathers.

(6) Where dressing and locker rooms, water closets and urinals are provided in conjunction with a *public pool*, they shall be located in such a manner that bathers, after using them, shall pass through or by a shower area to reach the *pool deck*.

(7) All shower heads shall be supplied with *potable water* at a pressure of at least 140 kPa.

(8) The shower water system shall have one or more tempering devices capable of being adjusted to ensure that water supplied to shower heads does not exceed 40°C.

(9) Floors in washrooms, shower areas and passageways used by bathers shall slope to waste drains at not less than 1 per cent and shall be of hard surfaced materials that do not become slippery when wet.

(10) Joints between floors and walls shall be coved in areas described in Sentence (9) and in dressing and locker rooms.

(11) Hose bibs shall be provided in safe locations convenient for flushing down the walls and floors in washrooms, shower areas and passageways used by bathers.

(12) Partitions or walls shall be provided to ensure privacy of dressing rooms, washrooms and shower areas.



(13) The bottom of interior partitions in dressing rooms and washrooms shall be between 250 mm and 350 mm above the floor.

(14) Dressing and locker room floors shall have non-slip surfaces that permit convenient and thorough cleaning and disinfecting.

### **3.11.10. Emergency Provisions for all Public Pools**

#### **3.11.10.1. Lighting and Emergency Provisions**

(1) Except as provided in Sentences (2) and (3), rooms and spaces used by the public in conjunction with a *public pool* shall be capable of illumination to levels in compliance with Subsection 3.2.7.

(2) Dressing rooms, locker rooms, shower rooms, washrooms and passageways shall have an illumination level of at least 200 lx at floor level.

(3) An *indoor pool* or an *outdoor pool* that is intended to be open for use after sundown shall be equipped with a lighting system

(a) that will maintain at any point on the *pool deck* and on the pool water surface an illumination level of at least,

(i) 200 lx in the case of an *indoor pool*, and

(ii) 100 lx in the case of an *outdoor pool*, and

(b) that makes the underwater areas of the pool clearly visible from any point on the *pool deck*.

(4) An *outdoor pool* that is intended to be open for use after sundown and an *indoor pool* shall be equipped with an independent emergency lighting system that automatically operates whenever the normal electrical power supply to a *public pool* lighting system fails.

(5) The independent emergency lighting system required in Sentence (4) shall be capable of illuminating the *pool deck*, washroom, shower, locker areas, pool water surface and all means of egress to a level of at least 10 lx.

(6) An emergency power supply for the emergency lighting system required in Sentence (4) shall comply with Sentences 3.2.7.4.(1) and 3.2.7.7.(1) and Article 3.2.7.5.

(7) An emergency telephone directly connected to an emergency service or to the local telephone utility shall be installed adjacent to the *pool deck* of every Class A pool.

(8) A telephone accessible for emergency use shall be installed for every Class B pool within 30 m of the pool.

(9) Every *wave action pool* shall have a public address system which shall be clearly audible in all portions of the pool.

(10) Every *wave action pool* shall have a communication system for the use of persons engaged in supervision or operation of the pool which shall be interconnected with each lifeguard control station, the first-aid room and the bather admission control centre.

(11) The public address system and the communication system described in Sentences (9) and (10) shall be interconnected.

### **3.11.11. Service Rooms and Storage for all Public Pools**

#### **3.11.11.1. Service Rooms and Storage Facilities**

(1) In addition to the requirements of this subsection, *service rooms* shall comply with the requirements of Sentences 3.5.2.1.(3), 3.5.2.1.(4) and 3.5.2.2.(3) and Articles 3.5.2.3. and 3.5.2.4.

(2) Where compressed chlorine gas is used as a pool water disinfectant, the cylinders or containers of gas shall be located in a *service room* that

(a) except as provided in Sentences 3.1.9.4.(3) to (8), is separated from the remainder of the *building* by a 1 h *fire separation* that is substantially gas tight,

(b) is designed for the sole purpose of containing all installed pressurized chlorine gas apparatus and piping and storing all chlorine gas containers or chlorine gas cylinders that are individually secured against toppling,

(c) is located at or above ground level,



- (d) is provided with an *exit* door opening to the outdoors,
  - (e) has screened openings to the outdoors with at least one opening located within 150 mm from the floor and at least one opening located within 150 mm from the ceiling, each opening being 2 per cent of the area of the floor,
  - (f) is equipped with emergency mechanical ventilation capable of producing at least 30 air changes per hour, taking suction at a maximum of 900 mm above the floor level and discharging at least 2.50 m above ground level directly to the outdoors, and
  - (g) contains a platform weigh scale of at least 135 kg capacity for each chlorine cylinder in use.
- (3) Storage facilities shall be provided for the safe storage of all chemicals required in pool operations.
- (4) The storage facilities shall be ventilated and shall be equipped with a water hose connection and a floor drain.
- (5) *Service rooms* and storage facilities, including rooms and facilities that contain electrical or mechanical equipment or chemicals or chemical feeders, shall be equipped with a secure locking device.

## Part 4

### Structural Design

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## Part 4

### Structural Design

#### Section 4.1 Structural Loads and Procedures

##### 4.1.1. General

**4.1.1.1. Scope.** The scope of this Part shall be as described in Section 2.1.

##### 4.1.1.2. Definitions

(1) Reserved.

(2) Reserved.

##### 4.1.1.3. Design Requirements

(1) *Buildings* and their structural members including formwork and falsework shall be designed to have sufficient structural capacity and structural integrity to resist safely and effectively all loads and effects of loads and influences that may reasonably be expected, having regard to the expected service life of *buildings*, and shall in any case satisfy the requirements of this Section.

(2) All permanent and temporary structural members, including formwork and falsework of a *building*, shall be protected against loads exceeding the specified loads during the construction period except when, as verified by analysis or test, temporary overloading of a structural member would result in no impairment of that member or any other member.

(3) Falsework shall be designed in conformance with CSA S269.1, "Falsework for Construction Purposes".

(4) Precautions shall be taken during all stages of construction to ensure that the *building* is not damaged or distorted due to loads applied during construction.

##### 4.1.1.4. Design Basis

(1) *Buildings* and their structural members shall be designed by one of the following methods,

(a) standard design procedures and practices provided by this Part and any standards and specifications referred to therein, except in cases of conflict the provisions of the *building code* shall govern; or

(b) one of the following three bases of design,

(i) analysis based on generally established theory,

(ii) evaluation of a given full-scale structure or a prototype by a loading test,

(iii) studies of model analogues,

provided the design is carried out by a person qualified in the specific method applied and provided the design ensures a level of safety and performance at least equivalent to that provided for or implicit in design carried out by the methods referred to in Clause (a).

(2) Communications towers, dish antennas and their supporting structures shall conform to CAN3-S37 "Antennas, Towers, and Antenna Supporting Structures".

##### 4.1.1.5. Deflections

(1) In proportioning structural members to limit deflection, consideration shall be given to

(a) the intended use of the *building* or member,

(b) limiting damage to non-structural members and materials whose physical properties are known at the time of the design, and

(c) limiting damage to the structure itself.

(2) Sway effects produced by vertical loads acting on the structure in its displaced configuration shall be taken into account in the design of *buildings* and their structural members.

(3) Deflections listed in Sentence (1) shall be taken into account in all structures and structural members made of material susceptible to deflections, deformations or changes in load distribution due to creep, shrinkage or other effects in the materials of which they are composed.

(4) The lateral deflection of *buildings* due to design wind and gravity loads shall be checked to ensure that

nonstructural elements whose nature is known at the time the structural design is carried out will not be damaged.

(5) Except as provided in Sentence (6), the total drift per *storey* under specified wind and gravity loads shall not exceed 1/500 of the *storey* height unless other drift limits are specified in the design standards referenced in Section 4.3.

(6) The deflection limits required in Sentence (5) do not apply to industrial *buildings* or sheds if it is known by experience that greater movement will have no significantly adverse effect on the strength and function of the *building*.

#### 4.1.1.6. Vibrations

(1) Floor systems susceptible to vibrations shall be designed so that there will be no significantly adverse effects on the intended *occupancy* of the *building* from vibrations.

(2) Unusually flexible *buildings* and *buildings* whose ratio of height to minimum effective width exceeds 4 to 1 shall be designed so that there will be no significantly adverse effects on the intended *occupancy* of the *building* from vibrations under dynamic wind load.

**4.1.1.7. Stability.** Provision shall be made to ensure adequate stability of a structure as a whole, and adequate lateral, torsional and local stability of all structural parts.

#### 4.1.1.8. Reserved.

### 4.1.2. Specified Loads and Effects

#### 4.1.2.1. Loads, Forces and Effects

(1) Except as provided for in Article 4.1.2.2., the following specified loads, forces and effects shall be considered in the design of a *building* and its structural members and connections

D— *dead loads* as provided for in Subsection 4.1.5.

L— *live load* due to intended use and *occupancy* (includes vertical loads due to cranes); snow, ice and rain; earth and hydrostatic pressure; horizontal components of static or inertia forces.

Q— *live load* to wind or earthquake, whichever produces the more unfavourable effect.

T— loads due to contraction or expansion caused by temperature changes, shrinkage, moisture changes, creep in component materials, movement due to differential settlement or combination thereof.

(2) Minimum specified values of these loads, as set forth in Subsections 4.1.5. to 4.1.10., shall be increased to account for dynamic effects where applicable.

#### 4.1.2.2. Loads Not Listed

(1) Where a *building* or structural member can be expected to be subjected to loads, forces or other effects not listed in Article 4.1.2.1., such effects shall be taken into account in the design based on the most appropriate information available.

(2) If it can be shown by engineering principles, or if it is known from experience, that neglect of some or all of the effects due to T do not affect the structural safety and serviceability, they need not be considered in the calculations.

**4.1.2.3. Structural Design.** Structural design shall be carried out in accordance with Subsection 4.1.3., Working Stress Design or Subsection 4.1.4., Limit States Design.

### 4.1.3. Working Stress Design

#### 4.1.3.1. Load Combinations

(1) In designing *buildings* and their structural members, all of the loads listed in Article 4.1.2.1. shall be considered to act in the following combinations, whichever combination produces the most unfavourable effects in the *building*, *foundation* or structural member concerned, when appropriately reduced according to Article 4.1.3.2.:

(a) D

(b) D + L

(c) D + Q



- (d)  $D + T$
- (e)  $D + L + Q$
- (f)  $D + L + T$
- (g)  $D + Q + T$
- (h)  $D + L + Q + T$

in which  $Q$  is the specified wind load or two-thirds of the specified earthquake load.

#### 4.1.3.2. Load Combination Factors

(1) The total of the combined load effects may be multiplied by the following load combination factors:

- (a) 1.0 for the combinations in Clauses 4.1.3.1.(1)(a) to (d),
- (b) 0.75 for the combinations in Clauses 4.1.3.1.(1)(e) to (g), and
- (c) 0.66 for the combination in Clause 4.1.3.1.(1)(h).

**4.1.3.3. Stress Reversal.** When loads other than  $D$  counteract  $D$  in a structural member or joint, special caution shall be exercised by the *designer* to ensure adequate safety for possible stress reversal.

#### 4.1.3.4. Overturning and Sliding

(1) A *building* shall be proportioned to resist an overturning moment and sliding force of not less than twice that due to the loads acting on the structure when the structure is considered as an entire unit acting on or anchored to its bearing stratum or supporting structure.

(2) The resistance to overturning shall be calculated as the sum of the stabilizing moment of the *dead load* only, plus the ultimate resistance of any anchoring devices.

#### 4.1.4. Limit States Design

##### 4.1.4.1. Definitions

(1) In this Subsection, the term

- (a) limit states means those conditions of a *building* structure in which the *building* ceases to fulfil the function for which it was designed,
- (b) specified loads ( $D$ ,  $L$ ,  $Q$  and  $T$ ) mean those loads defined in Article 4.1.2.1. and given in this Section,
- (c) load factor,  $\alpha$ , means a factor in Sentence 4.1.4.2.(4) applied to a specified load which, for the limit states under consideration, takes into account the variability of the loads and load patterns and analysis of their effects,
- (d) factored load means the product of a specified load and its load factor,
- (e) load combination factor,  $\psi$ , means a factor in Sentences 4.1.4.2.(5) and (6) applied to the factored loads other than *dead load* to take into account the reduced probability of a number of loads from different sources acting simultaneously,
- (f) importance factor,  $\gamma$ , means a factor in Sentence 4.1.4.2.(7) applied to the factored loads other than *dead load* to take into account the consequences of collapse as related to the use and *occupancy* of the *building*,
- (g) resistance,  $R$ , of a member, connection or structure is based on the dimensions and on the specified properties of the structural materials,
- (h) resistance factor,  $\phi$ , means a factor applied to a specified material property or to the resistance of a member, connection or structure which for the limit state under consideration takes into account the variability of dimensions and material properties, workmanship, type of failure and uncertainty in the prediction of resistance, and
- (i) factored resistance means the product of resistance and the applicable resistance factor.

##### 4.1.4.2. Safety Check for Strength and Stability

(1) A *building* and its structural components shall be designed to have sufficient strength and stability so that the factored resistance is greater than or equal to the effect of factored loads, as required in Sentence (3).

(2) In cases of overturning, uplift and sliding, anchorage is required if the effect of loads tending to cause overturning, uplift or sliding, multiplied by load factors greater than 1.0 given in Sentence (4), is greater than the stabilizing effect of *dead load* multiplied by a load factor of 0.85 as given in Sentence (4).

(3) The effect of factored loads is the structural effect due to the specified loads multiplied by load factors,  $\alpha$ , in Sentence (4), a load combination factor,  $\psi$ , in Sentences (5) and (6) and an importance factor,  $\gamma$ , in Sentence (7), and the factored load combinations shall be taken as

$$\alpha_d D + \gamma \psi [\alpha_l L + \alpha_q Q + \alpha_t T]$$

(4) The load factors,  $\alpha$ , shall be equal to

- (a)  $\alpha_d = 1.25$  except that when the *dead load* resists overturning, uplift or reversal of load effect,  $\alpha_d = 0.85$ ,
- (b)  $\alpha_l = 1.5$ ,
- (c)  $\alpha_q = 1.5$  for wind or 1.0 for earthquake, and
- (d)  $\alpha_t = 1.25$ .

(5) The load combination factor,  $\psi$ , shall be equal to

- (a) 1.0 when only 1 of the loads **L**, **Q** and **T** in Sentence 4.1.2.1.(1) acts,
- (b) 0.70 when 2 of the loads **L**, **Q** and **T** in Sentence 4.1.2.1.(1) act, and
- (c) 0.60 when all of the loads **L**, **Q** and **T** in Sentence 4.1.2.1.(1) act.

(6) The most unfavourable effect shall be determined by considering the loads **L**, **Q** and **T** in Sentence 4.1.2.1.(1) acting alone with  $\psi = 1.0$  or in combination with  $\psi = 0.70$  or 0.60.

(7) The importance factor,  $\gamma$ , shall be not less than 1.0 for all *buildings*, except that for *buildings* where it can be shown that collapse is not likely to cause injury or other serious consequences, it shall be not less than 0.8.

#### 4.1.4.3. Serviceability and Fatigue

(1) A *building* and its structural components shall be checked for serviceability limit states as defined in Clause 4.1.4.1.(1)(a) and fatigue under the effect of the specified loads as required in the standards described in Section 4.3.

(2) Where more than 1 load contributes to the stress in a member, the combination of loads shall be assumed to be

$$D + \psi[L + Q + T]$$

where  $\psi$  is in conformance with Sentences 4.1.4.2.(5) and (6).

#### 4.1.5. Dead Loads

##### 4.1.5.1. Dead Loads

(1) The specified *dead load* for a structural member consists of

- (a) the weight of the member itself,
- (b) the weight of all materials of construction incorporated into the *building* to be supported permanently by the member,
- (c) the weight of *partitions*,
- (d) the weight of permanent equipment, and
- (e) forces due to prestressing.

(2) Except as provided in Sentence (5), in areas of a *building* where *partitions* other than permanent *partitions* are shown on the drawings, or where *partitions* might be added in the future, allowance shall be made for the weight of such *partitions*.

(3) The *partition* weight allowance in Sentence (2) shall be determined from the actual or anticipated weight of the *partitions* placed in any probable position, but shall be not less than 1 kPa over the area of floor being considered.

(4) *Partition* loads used in design shall be shown on the drawings in sufficient detail to enable the loads due to materials of construction incorporated in the *building* to be determined.

(5) In cases where the *dead load* is counteractive, the load allowances as provided in Sentences (2) and (3) shall not be included in the design calculations.

4.1.6. Live Loads Due to Use and Occupancy

4.1.6.1. **Loads Due to Use of Floors and Roofs.** The specified *live load* on an area of floor or roof depends on the intended use and *occupancy*, and shall not be less than the uniformly distributed load patterns in Article 4.1.6.3., the loads resulting from the intended use or the concentrated loads in Article 4.1.6.10., whichever produces the most critical effect.

4.1.6.2. Uses Not Stipulated

(1) Where the use of an area of floor or roof is not provided for in Article 4.1.6.3., the specified *live loads* due to the use and *occupancy* of the area shall be determined from an analysis of the loads resulting from

- (a) the weight of the probable assembly of persons,
- (b) the weight of the probable accumulation of equipment and furnishings, and
- (c) the weight of the probable storage of materials.

4.1.6.3. **Full and Partial Loading.** The uniformly distributed load shall be not less than the values listed in Table 4.1.6.A., reduced as may be provided for in Article 4.1.6.9., applied uniformly over the entire area, or on any portions of the area, whichever produces the most critical effects in the members concerned.

Table 4.1.6.A.  
Forming Part of Article 4.1.6.3.

Specified Uniformly Distributed Live Loads on an Area of Floor or Roof	
Use of Area of Floor or Roof	Minimum Specified Load, kPa
Assembly Areas	
(a) Except for those areas listed under (b) and (c), assembly areas with or without fixed seats including Arenas Auditoria Churches Dance floors Dining areas (4) Foyers and entrance halls Grandstands, reviewing stands and bleachers Gymnasias Museums Promenades Rinks Stadia Stages Theatres and other areas with similar uses	4.8
(b) Assembly areas with fixed seats that have backs over at least 80 percent of the assembly area for the following uses: Churches Courtrooms Lecture halls Theatres	2.4
(c) Classrooms with or without fixed seats	2.4
Column 1	2

Table 4.1.6.A.—(Cont'd)  
Forming Part of Article 4.1.6.3.

Specified Uniformly Distributed Live Loads on an Area of Floor or Roof	
Use of Area of Floor or Roof	Minimum Specified Load, kPa
Attics	
Accessible by a stairway in <i>residential occupancies</i> only	1.4
Having limited accessibility so that there is no storage of equipment or materials	0.5
Balconies, exterior	4.8
Balconies, interior and <i>mezzanines</i> that could be used for the assembly of people as a viewing area.	4.8
Balconies, interior other than above	(1)
<i>Mezzanines</i> other than above	(1)
Corridors, lobbies and aisles other than those listed below	4.8
Corridors, lobbies and aisles not over 1200 mm, in width and all upper floor corridors of residential areas only of apartments, hotels and motels (that can not be used for the assembly of people as a viewing area)	(1)
Equipment areas and <i>service rooms</i> including	
Generator rooms	
Mechanical equipment exclusive of elevators	
Machine rooms	
Pump rooms	
Transformer vaults	
Ventilating or air-conditioning equipment	3.6 (2)
Exits and fire escapes	4.8
Factories	6.0 (2)
Footbridges	4.8
Garages for	
Passenger cars	2.4
Unloaded buses and light trucks	6.0
Loaded buses and trucks and all other trucking spaces	12.0
Kitchens (other than residential)	4.8
Libraries	
Stack rooms	7.2
Reading and study rooms	2.9
Office areas in office <i>buildings</i> and other <i>buildings</i> (not including record storage and computer rooms) located in	
<i>Basement</i> and first floor	4.8
Floors above first floor	2.4
Operating rooms and laboratories	3.6
Patients' bedrooms	1.9
Column 1	2



Table 4.1.6.A.—(Cont'd)  
Forming Part of Article 4.1.6.3.

Specified Uniformly Distributed Live Loads on an Area of Floor or Roof	
Use of Area of Floor or Roof	Minimum Specified Load, kPa
Recreational areas that cannot be used for assembly purposes including Billiard rooms Bowling alleys Pool rooms	3.6
Residential areas (within the scope of Article 2.1.1.2.) Sleeping and living quarters in apartments, <i>hotels</i> , motels, boarding schools and colleges	1.9
Residential areas (within the scope of Article 2.1.1.3.) Bedrooms	1.4
Other areas	1.9
Stairs within <i>dwelling units</i>	1.9
Retail and wholesale areas	4.8
Roofs	1.0 (3)
Sidewalks and driveways over areaways and <i>basements</i>	12.0
Storage areas	4.8 (2)
Toilet areas	2.4
Underground slabs with earth cover	(2)
Warehouses	4.8 (2)
Column 1	2

Notes to Table 4.1.6.A.:

- (1) See Article 4.1.6.4.
- (2) See Article 4.1.6.7.
- (3) See Article 4.1.7.1.
- (4) See Article 4.1.6.6.

**4.1.6.4. Loads for Occupancy Served.** Corridors, lobbies and aisles not over 1 200 mm in width, all upper floor corridors of residential areas of apartments, hotels and motels and interior balconies and *mezzanines* shall be designed to carry not less than the specified load required for the *occupancy* they serve provided they can not be used for the assembly of people as a viewing area.

**4.1.6.5. Loads on Exterior Areas**

(1) Exterior areas accessible to vehicular traffic shall be designed for their intended use including the weight of fire fighting equipment, but not less than the *live loads* due to snow, ice and rain prescribed in Subsection 4.1.7.

(2) Exterior areas accessible to pedestrian traffic, but not vehicular traffic, shall be designed for their intended use, but not less than

- (a) the *live load* prescribed for assembly areas in Table 4.1.6.A., and
- (b) the *live loads* due to snow, ice and rain as prescribed in Subsection 4.1.7.

**4.1.6.6. Loads for Dining Areas.** The minimum specified load in Table 4.1.6.A. for dining areas may be reduced to 2.4 kPa for dining areas in *buildings* that have been converted for such purposes provided that the *floor area* does not exceed 100 m<sup>2</sup> and use of the dining area for other assembly purposes including dancing is precluded.

**4.1.6.7. Floor Loads Due to Intended Use.** Equipment areas and *service rooms*, factories, storage areas and

warehouses shall be designed for the loads due to their intended use but not less than the specified loads listed in Table 4.1.6.A.

**4.1.6.8. More Than One Occupancy.** Where an area of floor or roof is intended for 2 or more *occupancies* at different times, the value to be used from Table 4.1.6.A. shall be the greatest value for any of the *occupancies* concerned.

**4.1.6.9. Variation with Tributary Area**

(1) Where a structural member supports a tributary area of floor, roof or combination thereof greater than 80 m<sup>2</sup> used for *assembly occupancies* designed for a *live load* of 4.8 kPa or more, or for storage, manufacturing, retail stores, garages or as a footbridge, the specified *live load* due to use and *occupancy*, excluding snow, is the load provided for in Article 4.1.6.3. multiplied by

$$0.5 + \sqrt{20/A}$$

where A is the tributary area in square metres for this type of use and *occupancy*, excluding the area supporting snow.

(2) Where a structural member supports a tributary area of floor, roof or combination of these greater than 20 m<sup>2</sup> for any use or *occupancy* other than *assembly occupancies* and those indicated in Sentence (1), the specified *live load* due to use and *occupancy*, excluding snow, is the load provided for in Article 4.1.6.3. multiplied by

$$0.3 + \sqrt{9.8/B}$$

where B is the tributary area in square metres for this type of use and *occupancy* excluding the area supporting snow.

**4.1.6.10. Concentrated Loads.** The specified load due to possible concentrations of load resulting from the use of an area of floor or roof shall not be less than that listed in Table 4.1.6.B. applied over an area of 750 mm by 750 mm located so as to cause maximum effects, except that for *occupancies* not listed in Table 4.1.6.B. the concentrations of load shall be determined in accordance with Article 4.1.6.2.

**Table 4.1.6.B.**  
Forming Part of Article 4.1.6.10.

Specified Concentrated Live Loads on an Area of Floor or Roof	
Area of Floor or Roof	Minimum Specified Concentrated Load, kPa
Roof surfaces	1.3
Floors of classrooms	4.5
Floors of offices, manufacturing <i>buildings</i> , hospital wards and stages	9.0
Floors and areas used by passenger cars	11
Floors and areas used by vehicles not exceeding 3600 kg gross weight	18
Floors and areas used by vehicles exceeding 3600 kg but not exceeding 9000 kg gross weight	36
Floors and areas used by vehicles exceeding 9000 kg gross weight	54
Driveways and sidewalks over areaways and <i>basements</i>	54
Column 1	2

**4.1.6.11. Bleacher Seats.** Bleacher seats shall be designed for a uniformly distributed load of 1.75 kN for each linear metre or for a concentrated load of 2.2 kN distributed over a length of 0.75 m, whichever produces the greatest effect on the supporting members.

**4.1.6.12. Helicopter Landing Areas.** Helicopter landing areas on roofs shall be constructed in conformance with "Heliport and Helideck Standards and Recommended Practices", third edition, 1985, published by Transport Canada.

**4.1.6.13. Roof Parking Decks.** Roof parking decks shall be designed for the uniformly distributed loads in

Table 4.1.6.A., the concentrated loads in Table 4.1.6.B. or the roof snow load, whichever produces the greatest effect in the members concerned.

4.1.7. Live Loads Due to Snow, Ice and Rain

4.1.7.1. Specified Snow Loading

(1) The specified loading,  $S$ , due to snow accumulation on a roof or any other *building* surface subject to snow accumulation shall be calculated from the formula

$$S = S_s(C_b \cdot C_w \cdot C_s \cdot C_a) + S_r$$

where  $S_s$  is the ground snow load in kPa, determined in accordance with Subsection 2.5.1.,

$S_r$  is the associated rain load in kPa determined in accordance with Subsection 2.5.1., but not greater than  $S_s(C_b \cdot C_w \cdot C_s \cdot C_a)$ ,

$C_b$  is the basic roof snow load factor of 0.8,

$C_w$  is the wind exposure factor in Sentences (2) and (3),

$C_s$  is the slope factor in Sentences (4), (5) and (6), and

$C_a$  is the accumulation factor in Sentence (7).

(2) Except as provided for in Sentence (3), the wind exposure factor,  $C_w$ , shall be 1.0.

(3) The wind exposure factor in Sentence (2) may be reduced to 0.75, or in exposed areas north of the tree-line to 0.5, where

(a) the *building* is in an exposed location, so that the roof is exposed to the winds on all sides, with no obstructions higher than the roof located closer to the *building* than a distance equal to 10 times the height of the obstruction above the roof,

(b) the area of roof under consideration is exposed to the wind on all sides with no significant obstructions on the roof, such as parapet walls, within a distance of at least 10 times the difference between the height of the obstruction and  $C_b \cdot C_w \cdot S_s / \gamma$  metres, where  $\gamma$  is the unit weight of snow on roofs, and

(c) the loading does not involve accumulation of snow due to drifting from adjacent surfaces.

(4) Except as provided for in Sentences (5) and (6), the slope factor,  $C_s$ , shall be

(a) 1.0 when the roof slope,  $\alpha$ , is equal to or less than  $30^\circ$ ,

(b)  $(70^\circ - \alpha)/40^\circ$  when  $\alpha$  is greater than  $30^\circ$ , but not greater than  $70^\circ$ , and

(c) 0 when  $\alpha$  exceeds  $70^\circ$ .

(5) The slope factor,  $C_s$ , for unobstructed slippery roofs where snow and ice can slide completely off the roof shall be

(a) 1.0 when the roof slope,  $\alpha$ , is equal to or less than  $15^\circ$ ,

(b)  $(60^\circ - \alpha)/45^\circ$  when  $\alpha$  is greater than  $15^\circ$ , but not greater than  $60^\circ$ , and

(c) 0 when  $\alpha$  exceeds  $60^\circ$ .

(6) The slope factor,  $C_s$ , shall be 1.0 when used in conjunction with accumulation factors for increased snow load as given in Subclauses (7)(b)(ii) and (7)(b)(v).

(7) The accumulation factor,  $C_a$ ,

(a) shall be 1.0, and

(b) where appropriate for the shape of the roof, assigned other values which account for

(i) non-uniform snow loads on gable, arched or curved roofs and domes,

(ii) increased snow loads in valleys,

(iii) increased non-uniform snow loads due to snow drifting onto a roof which is at a level lower than other parts of the same *building* or at a level lower than another *building* within 5 m of it,

(iv) increased non-uniform snow loads on areas adjacent to roof projections, such as penthouses, large *chimneys* and equipment, and

- (v) increased snow or ice loads due to snow sliding or drainage of meltwater from adjacent roofs.

#### 4.1.7.2. Full and Partial Loading

(1) A roof or other *building* surface and its structural members subject to loads due to snow accumulation shall be designed for the specified load in Sentence 4.1.7.1.(1), distributed over the entire loaded area.

(2) In addition to the distribution in Sentence (1), flat roofs and shed roofs, gable roofs of 15° slope or less and arched or curved roofs with rise to span ratios equal to or less than 1/10 shall be designed for the specified uniform snow load in Sentence 4.1.7.1.(1), computed using  $C_a = 1.0$ , distributed on any 1 portion of the loaded area, and half of this load on the remainder of the loaded area, in such a way as to produce the greatest effects on the member concerned.

#### 4.1.7.3. Specified Rain Load

(1) The specified load due to the accumulation of rain water on a surface, whose position and shape and deflection under load is such as to make such an accumulation possible, is that resulting from the 24 h rainfall determined in conformance with Subsection 2.5.1. over the horizontal projection of the surface and all tributary surfaces.

(2) The provisions of Sentence (1) apply whether or not the surface is provided with drainage, such as rain water leaders.

(3) Except as provided for in Sentence 4.1.7.1.(1), loads due to rain need not be considered to act simultaneously with loads due to snow.

#### 4.1.8. Live Loads Due to Wind

##### 4.1.8.1. Specified Wind Loading

(1) The specified external pressure or suction due to wind on part or all of a surface of a *building* shall be calculated from

$$p = qC_e C_g C_p$$

where  $p$  = the specified external pressure acting statically and in a direction normal to the surface either as a pressure directed towards the surface or as a suction directed away from the surface,

$q$  = the reference velocity pressure as provided for in Sentence (4),

$C_e$  = the exposure factor as provided for in Sentence (5),

$C_g$  = the gust effect factor as provided for in Sentence (6), and

$C_p$  = the external pressure coefficient averaged over the area of the surface considered.

(2) The net wind load for the *building* as a whole shall be the algebraic difference of the loads on the windward and the leeward surfaces, and in some cases may be calculated as the products of the external pressures or suctions and the areas of the surfaces over which they are averaged as provided in Sentence (1).

(3) The net specified pressure due to wind on part or all of a surface of a *building* shall be the algebraic difference of the external pressure or suction as provided for in Sentence (1) and the specified internal pressure or suction due to wind calculated from

$$p_i = qC_e C_g C_{pi}$$

where  $p_i$  = the specified internal pressure acting statically and in a direction normal to the surface either as a pressure (directed outwards) or as a suction (directed inwards),

$q, C_e, C_g$  are as provided for in Sentences (4), (5) and (6), respectively, except that  $C_e$  shall be evaluated at the *building* mid-height instead of the height of the element considered, and

$C_{pi}$  = the internal pressure coefficient.

(4) The reference velocity pressure,  $q$ , is the appropriate value determined in conformance with Subsection 2.5.1. for the following conditions:

- the reference velocity pressure,  $q$ , for the design of cladding shall be based on a probability of being exceeded in any one year of 1 in 10,
- the reference velocity pressure,  $q$ , for the design of structural members for deflection and vibration shall be based on a probability of being exceeded in any one year of 1 in 10,



- (c) for all *buildings*, except those listed in Clause (d), the reference velocity pressure,  $q$ , for the design of structural members for strength shall be based on a probability of being exceeded in any one year of 1 in 30, and
  - (d) the reference velocity pressure,  $q$ , for the design of structural members for strength for *post-disaster buildings* shall be based on a probability of being exceeded in any one year of 1 in 100.
- (5) The exposure factor  $C_e$  shall be
- (a) the value shown in Table 4.1.8.A. for the appropriate reference height for the surface or part of the surface,
  - (b) the value of the function  $(h/10)^{1.5}$  but not less than 0.9 where  $h$  is the reference height above *grade* in metres for the surface or part of the surface, or
  - (c) if a dynamic approach to the action of wind gusts is used, an appropriate value depending on both height and shielding.

Table 4.1.8.A.  
Forming Part of Sentence 4.1.8.1.(5)

Exposure Factor, $C_e$	
Height, m	Exposure Factor
Over 0 to 6	0.9
" 6 to 12	1.0
" 12 to 20	1.1
" 20 to 30	1.2
" 30 to 44	1.3
" 44 to 64	1.4
" 64 to 85	1.5
" 85 to 140	1.6
" 140 to 240	1.8
" 240 to 400	2.0
Column 1	2

- (6) The gust effect factor  $C_g$  is one of the following values:
- (a) 1.0 or 2.0 for internal pressures as appropriate,
  - (b) 2.0 for the *building* as a whole and main structural members,
  - (c) 2.5 for small elements including cladding, or
  - (d) if a dynamic approach to the action of wind gusts is used, an appropriate value depending on the turbulence of the wind and the size and natural frequency of the structure.

4.1.8.2. Dynamic Effects of Wind

- (1) *Buildings* whose height is greater than 4 times their minimum effective width or greater than 120 m and other *buildings* whose light weight, low frequency and low damping properties make them susceptible to vibration shall be
- (a) designed by experimental methods for the danger of dynamic overloading and vibration and the effects of fatigue, or
  - (b) designed using a dynamic approach to the action of wind gusts.

4.1.8.3. Full and Partial Loading

- (1) *Buildings* and structural members shall be capable of withstanding the effects of
- (a) the full winds acting along each of the two principal axes considered separately,

- (b) the wind loads as described in (a) but with 25 per cent of the load removed from any portion of the area,
- (c) the wind loads as described in (a) but considered simultaneously at 75 per cent of their full value, and
- (d) the wind loads as described in (c) but with 25 per cent of these loads removed from any portion of the area.

#### 4.1.8.4. Interior Walls and Partitions

(1) In the design of interior walls and *partitions* due consideration shall be given to differences in air pressure on opposite sides of the wall or *partition* which may result from

- (a) pressure differences between the windward and leeward sides of a *building*,
- (b) stack effects due to a difference in air temperature between the exterior and interior of the *building*, and
- (c) air pressurization by the mechanical services of the *building*.

#### 4.1.9. Live Loads Due to Earthquakes

##### 4.1.9.1. Analysis

(1) The specified loading due to earthquake motion shall be determined by the analysis given in this Subsection.

(2) In this Subsection

$A_r$  = response amplification to account for type of attachment of mechanical/electrical equipment, as defined in Sentence 4.1.9.1.(17).

$A_x$  = amplification factor at level  $x$  to account for variation of response of mechanical/electrical equipment with elevation within the *building*, as defined in Sentence 4.1.9.1.(17).

$C_p$  = seismic coefficient for mechanical/electrical equipment, as defined in Sentence 4.1.9.1.(17).

$D$  = the dimension of the *building* in a direction parallel to the applied forces.

$D_n$  = plan dimension of the *building* in the direction of the computed eccentricity.

$D_x$  = dimension of wall or braced frame which constitutes the main lateral load-resisting system in a direction parallel to the applied forces.

$e$  = distance between the location of the resultant of all forces at and above the level being considered and the centre of rigidity at the level being considered.

$e_x$  = design eccentricity at level  $x$ .

$F$  = foundation factor as given in Sentence 4.1.9.1.(11).

$F_t$  = portion of  $V$  to be concentrated at the top of the structure as defined in Sentence 4.1.9.1.(13).

$F_x$  = lateral force applied to level  $x$ .

$h_i, h_n, h_x$  = the height above the base ( $i = 0$ ) to level "i", "n", or "x", respectively.

$h_x$  = interstorey height ( $h_i - h_{i-1}$ ).

$I$  = seismic importance factor of the structure, as described in Sentence 4.1.9.1.(10).

$J$  = numerical reduction coefficient for base overturning moment as defined in Sentence 4.1.9.1.(20).

$J_x$  = numerical reduction coefficient for moment at level "x" as defined in Sentence 4.1.9.1.(21).

Level  $i$  = any level in the *building*,  $i = 1$  for first level above the base.

Level  $n$  = that level which is uppermost in the main portion of the structure.

Level  $x$  = that level which is under design consideration.

$M_{tx}$  = torsional moment at level  $x$ .

- N = the total number of *storeys* above exterior *grade* to level "n". (N is usually numerically equal to n.)
- R = force modification factor that reflects the capacity of a structure to dissipate energy through inelastic behaviour, as given in Sentence 4.1.9.1.(8).
- S = seismic response factor, for unit value of zonal velocity ratio, as defined in Sentence 4.1.9.1.(6).
- S<sub>p</sub> = horizontal force factor for architectural part or portion of a *building* and its anchorage, as given in Table 4.1.9.D. and Sentence 4.1.9.1.(16).
- T = fundamental period of vibration of the *building* or structure in seconds in the direction under consideration.
- U = factor representing level of protection based on experience, as specified in Sentence 4.1.9.1.(4).
- v = zonal velocity ratio = the specified zonal horizontal ground velocity expressed as a ratio to 1 m/s.
- V = minimum lateral seismic force at the base of the structure, to be used with a load factor a<sub>0</sub> = 1.0.
- V<sub>e</sub> = equivalent lateral force at the base of the structure representing elastic response, as specified in Sentence 4.1.9.1.(5).
- V<sub>p</sub> = lateral force on a part of the structure.
- W = *dead load* plus the following:  
25 per cent of the design snow load specified in Subsection 4.1.7.,  
60 per cent of the storage load for areas used for storage and the full contents of any tanks.
- W<sub>i</sub>, W<sub>x</sub> = that portion of W which is located at or is assigned to level "i" or "x", respectively.
- W<sub>p</sub> = the weight of a part or portion of a structure, e.g. cladding, *partitions* and appendages.
- Z<sub>a</sub> = acceleration-related seismic zone.
- Z<sub>v</sub> = velocity-related seismic zone.

(3) Earthquake forces shall be assumed to act in any horizontal direction, except that independent design about each of the principal axes shall be considered to provide adequate resistance in the structure for earthquake forces applied in any direction.

(4) The minimum lateral seismic force, V, shall be calculated in accordance with the following formula:

$$V = (V_e/R)U$$

where U = 0.6.

(5) The equivalent lateral seismic force representing elastic response, V<sub>e</sub>, shall be calculated in accordance with the following formula:

$$V_e = v \cdot S \cdot I \cdot F \cdot W$$

where v is the zonal velocity ratio determined in conformance with Subsection 2.5.1., except when Z<sub>v</sub> = 0 and Z<sub>a</sub> > 0 the value of Z<sub>v</sub> shall be taken as 1 and v as 0.05.

(6) The seismic response factor, S, shall conform to Table 4.1.9.A.:

Table 4.1.9.A.  
Forming Part of Sentence 4.1.9.1.(6)

Seismic Response Factors		
T	Z <sub>a</sub> /Z <sub>v</sub>	S
Not > 0.25	> 1.0	4.2
	1.0	3.0
	< 1.0	2.1
Column 1	2	3

**Table 4.1.9.A.—(Cont'd)**  
Forming Part of Sentence 4.1.9.1.(6)

Seismic Response Factors		
T	$Z_a/Z_v$	S
> 0.25 but < 0.50	> 1.0	4.2 – 8.4(T – 0.25)
	1.0	3.0 – 3.6(T – 0.25)
	< 1.0	2.1
≤ 0.50	All values	$1.5/\sqrt{T}$
Column 1	2	3

(7) The fundamental period, T, in Sentence (6) shall be determined by

- the formula  $0.1N$  where the lateral force-resisting system consists of a moment resisting space frame which resists 100 per cent of the required lateral forces and the frame is not enclosed by or adjoined by more rigid elements that would tend to prevent the frame from resisting lateral forces,
- the formula  $0.09h_n/\sqrt{D_n}$  for other structures, where  $h_n$  and  $D_n$  are in metres, and  $D_n$  = length of wall or braced frame which constitutes the main lateral load resisting system in the direction parallel to the applied forces; if the main lateral load resisting system does not have a well-defined length, then  $D_n$  shall be used in lieu of  $D_n$ , or
- other established methods of mechanics provided they do not result in a value that exceeds 1.2 times the period calculated in Clause (a) or (b).

(8) Except as provided for in Sentences 4.1.9.3.(1), (2) and (3), values of the force modification factor, R, shall conform to Table 4.1.9.B.

**Table 4.1.9.B.**  
Forming Part of Sentence 4.1.9.1.(8)

Force Modification Factors		
Case	Type of Lateral Load Resisting System	R
1 2 3 4 5 6	Steel Structures Designed and Detailed According to CAN/CSA-S16.1-M	
	ductile moment-resisting space frame	4.0
	ductile eccentrically braced frame	3.5
	ductile braced frame	3.0
	moment-resisting space frame with nominal ductility	3.0
	braced frame with nominal ductility	2.0
6	other lateral-force-resisting systems not defined in Cases 1 to 5	1.5
7 8 9 10 11	Reinforced Concrete Structures Designed and Detailed According to CAN3-A23.2-M	
	ductile moment-resisting space frame	4.0
	ductile flexural wall	3.5
	moment-resisting space frame with nominal ductility	2.0
	wall with nominal ductility	2.0
11	other lateral-force-resisting systems not defined in Cases 7 to 10	1.5
12 13 14	Timber Structures Designed and Detailed According to CAN/CSA-086.1-M	
	nailed shear panel with plywood, waferboard or strandboard	3.0
	concentrically braced heavy timber space frame with ductile connections	2.0
	moment-resisting wood space frame with ductile connections	2.0
Column 1	2	3



Table 4.1.9.B.—(Cont'd)  
Forming Part of Sentence 4.1.9.1.(8)

Force Modification Factors		
Case	Type of Lateral Load Resisting System	R
15	other systems not included in Cases 12 to 14	1.5
	Masonry Structures Designed and Detailed According to CAN3-S304-M	
16	reinforced masonry	1.5
17	unreinforced masonry	1.0
18	Other Lateral Load-resisting Systems not Defined in Cases 1 to 17	1.0
Column 1	2	3

(9) For the purpose of applying Table 4.1.9.B.

- (a) a space frame shall mean a 3 dimensional structural system composed of interconnected members laterally supported so as to function as a completed self-contained unit with or without horizontal diaphragms,
- (b) a ductile moment-resisting space frame shall mean a space frame that is designed to resist the specified seismic forces and that, in addition, has adequate ductility or energy-absorptive capacity,
- (c) for combinations of different types of lateral-load-resisting systems acting in the same direction, R shall be taken as the lowest value of R corresponding to these systems except as given in Clause (d),
- (d) if one of the lateral-load-resisting systems of the structure is designed to take 100 per cent of the lateral force, R can be selected as appropriate for the system; the components of the structure not considered to be part of the lateral-load-resisting system must be capable of resisting their gravity loads under seismically induced deformation,
- (e) if it can be demonstrated through research or experience that the seismic performance of a structural system is at least equivalent to one of Cases 1-5, 7-10, 12-14 or 16 in Table 4.1.9.B., then such a structural system will qualify for a value of R corresponding to the equivalent case in that Table.

(10) The seismic importance factor, I, shall equal 1.5 for *post-disaster buildings*, 1.3 for schools and 1.0 for all other *buildings*.

(11) The foundation factor, F, shall conform to Table 4.1.9.C., except that the product F·S need not exceed 3.0 where  $Z_u$  does not exceed  $Z_v$  and need not exceed 4.2 where  $Z_u$  is greater than  $Z_v$ .

Table 4.1.9.C.  
Forming Part of Sentence 4.1.9.1.(11)

Foundation Factors		
Categories	Type and Depth of Soil Measured from the Foundation or Pile Cap Level	F
1	Rock, dense and very dense coarse-grained soils, very stiff and hard fine-grained soils; compact coarse-grained soils and firm and stiff fine-grained soils from 0 to 15 m deep	1.0
2	Compact coarse-grained soils, firm and stiff fine-grained soils with a depth greater than 15 m; very loose and loose coarse-grained soils and very soft and soft fine-grained soils from 0 to 15 m deep	1.3
3	Very loose and loose coarse-grained soils, with depth greater than 15 m	1.5
4	Very soft and soft fine-grained soils with depth greater than 15 m	2.0
Column 1	2	3

(12) The weight,  $W$ , of the structure shall be calculated in accordance with the following formula:

$$W = \sum_{i=1}^n W_i$$

(13) The total lateral seismic force,  $V$ , shall be distributed as follows:

- (a) a portion,  $F_t$ , shall be assumed to be concentrated at the top of the structure and equal to  $0.07TV$ , except that  $F_t$  need not exceed  $0.25V$  and may be considered as zero where  $T$  does not exceed  $0.7s$ ; the remainder,  $V - F_t$ , shall be distributed along the height of the *building*, including the top level, in accordance with the formula

$$F_x = (V - F_t) W_x h_x / \left( \sum_{i=1}^n W_i h_i \right); \text{ or}$$

- (b) by dynamic analysis.

(14) The total shear in any horizontal plane shall be distributed to the various elements of the lateral force-resistant system in proportion to their rigidities according to rational analysis, with due regard to the capacities and stiffnesses of the nonstructural elements and to the effects of torsion as required by Sentence 4.1.9.1.(22).

(15) Parts of *buildings* as described in Table 4.1.9.D. and their anchorage shall be designed for a lateral force,  $V_p$ , equal to  $vS_p W_p$ , distributed according to the distribution of mass of the element under consideration, where  $v$  is determined in conformance with Subsection 2.5.1., except when  $Z_n$  equals zero and  $Z_u$  is greater than zero,  $v$  shall be taken as 0.05.

(16) Except as provided for in Sentence (18), the values of  $S_p$  in Sentence (15) shall for architectural components shall conform to Table 4.1.9.D.

**Table 4.1.9.D.**  
Forming Part of Sentence 4.1.9.1.(16)

Values of $S_p$ for Architectural Parts or Portions of Buildings			
Category	Architectural Part or Portion of <i>Building</i>	Direction of Force	Value of $S_p$
1	All exterior and interior walls except those of Categories 2 and 3	Normal to flat surface	1.5
2	Cantilever parapet and other cantilever walls except retaining walls; horizontally cantilevered floors, balconies, beams, etc.	Normal to flat surface	6.5
3	Exterior and interior ornamentations and appendages	Any direction	6.5
4	Connections/attachments for Categories 1, 2 and 3	Any direction	15.0
5	Floors and roofs acting as diaphragms	Any direction	0.7(1)
6	Towers, <i>chimneys</i> , smokestacks and penthouses when connected to or forming part of a <i>building</i> having $h_n/D < 5$ $h_n/D \geq 5$	Any direction	1.3
			2.0
			3.0
Column 1	2	3	4

**Note to Table 4.1.9.D.**

See Sentence 4.1.9.1.(18).

(17) The values of  $S_p$  in Sentence (15) for mechanical/electrical components shall be equal to:

$$S_p = C_p \cdot A_r \cdot A_x$$

where:

$$A_x = 1.0 + (h_v/h_n).$$

- $A_r = 1.0$  for components that are both rigid and rigidly connected,  
 $= 2.0$  for flexible components, or flexibly mounted components located on the ground,  
 $= 4.5$  for all other cases,  
 $C_p =$  seismic coefficient for components of mechanical and electrical equipment as given Table 4.1.9.E.

Table 4.1.9.E.  
Forming Part of Sentence 4.1.9.1.(17)

Values of $C_p$ for Mechanical/Electrical Parts or Portions of Buildings			
Category	Mechanical/Electrical Part or Portion of <i>Building</i>	Direction of Force	Value of $C_p$
1	Machinery, fixtures, equipment and pipes that are both rigid and rigidly connected to or forming part of a <i>building</i> . Tanks or bins containing non-liquids, rigidly connected.	Any direction	1.0
2	Tanks plus contents when resting on the ground within a <i>building</i> .	Any direction	0.7
3	Tanks plus contents when resting on the ground within a <i>building</i> and containing toxic or explosive materials or fire fighting fluids.	Any direction	1.0
4	Machinery, fixtures, equipment, pipes and tanks including contents other than those listed above.	Any direction	1.0
5	Pipes and containers plus contents for toxic or explosive materials, for materials having a flash point below 38°C or for fire fighting fluids.	Any direction	1.5
Column 1	2	3	4

(18) Floors and roofs acting as diaphragms shall be designed for a minimum force corresponding to a value of  $S_p$  equal to 0.7 applied to loads tributary from that *storey*, unless a greater force  $F_x$  is assigned to the level under consideration as in Sentences (13) and (14).

(19) When the mass of a tank plus contents is greater than 10 per cent of the mass of the supporting floor, the lateral forces shall be determined by rational analysis.

(20) The overturning moment,  $M$ , at the base of the structure shall be multiplied by a reduction coefficient,  $J$ , where

- (a)  $J = 1$  where  $T$  is less than 0.5,  
(b)  $J = (1.1 - 0.2T)$  where  $T$  is at least 0.5, but not more than 1.5, and  
(c)  $J = 0.8$  where  $T$  is greater than 1.5.

(21) The overturning moment  $M_x$  at any level  $x$  shall be multiplied by  $J_x$  where

$$J_x = J + (1 - J)(h_x/h_n)^3$$

The incremental changes in the design overturning moments, in the *storey* under consideration, shall be distributed to the various resisting elements in the same proportion as the distribution of shears in the resisting system. Where other vertical members are provided which are capable of partially resisting the over-turning moments, a redistribution may be made to these members if framing members of sufficient strength and stiffness to transmit the required loads are provided. Where a vertical-resisting element is discontinuous, the over-turning moment carried by the lowest *storey* of that element shall be carried down as loads to the *foundation*.

(22) Torsional moments in the horizontal plane of the *building* shall be computed in each *storey* using the following formula:

$$M_{tx} = \left( F_t + \sum_{i=1}^n F_i \right) e_x$$

(23) The design eccentricity,  $e_x$ , in Sentence (22) shall be computed by one of the following equations, whichever provides the greater stresses:

$$(a) \quad e_x = 1.5e + 0.10D_n, \text{ or}$$

$$(b) \quad e_x = 0.5e - 0.10D_n.$$

(24) Where the centroids of mass and the centres of stiffness of the different floors do not lie approximately on vertical lines, a dynamic analysis shall be carried out to determine the torsional effects.

(25) The *building* design shall take full account of the possible effects of setbacks.

#### 4.1.9.2. Deflections

(1) Lateral deflections of a structure shall be calculated in accordance with accepted practice and based on the loads and requirements defined in this Section.

(2) Lateral deflections obtained from an elastic analysis using the loads given in Sentences 4.1.9.1.(13) and (14) shall be multiplied by R to give realistic values of anticipated deflections.

(3) The interstorey deflections based on the lateral deflections as calculated in Sentence (2) shall be limited to  $0.01h$  for *post-disaster buildings* and  $0.02h$  for all other *buildings*.

(4) All portions of the structure shall be designed to act as integral units in resisting horizontal forces, unless separated by adequate clearances which permit horizontal deflections of the structure consistent with values of deflections calculated in accordance with Sentence (2).

(5) The nonstructural components shall be designed so as not to transfer to the structural system any forces unaccounted for in the design, and any interaction of rigid elements such as walls and the structural system shall be designed so that the capacity of the structural system is not impaired by the action or failure of the rigid elements.

(6) Adjacent structures shall either be separated by the sum of their individual deflections as calculated in Sentence (2), or shall be connected to each other.

(7) The method of connection in Sentence (6) shall take into account the mass, stiffness, strength, ductility and anticipated motion of the connected *buildings* and the character of the connection.

(8) The deflections as calculated in Sentence (2) shall be used to account for sway effects due to seismic loading as required by Sentence 4.1.1.5.(2).

(9) The connected *buildings* in Sentence (6) shall be assumed to have the lowest R value of the *buildings* connected, unless the use of a higher value can be justified by rational analysis.

#### 4.1.9.3. Special Provisions

(1) *Buildings* more than 3 storeys in *building height* in velocity- or acceleration-related seismic zones of 2 and higher shall have a structural system as described in Cases 1-5, 7-10, 12-14 or 16 in Table 4.1.9.B.

(2) For *buildings* more than 60 m in height with a structural system having  $R = 2.0$  or  $R = 1.5$  as determined from Table 4.1.9.B. or as determined from Clause 4.1.9.1.(9)(c), the value of V shall be increased by 50 per cent in velocity-related seismic zones of 4 and higher.

(3) Elevated tanks plus full contents not supported by a *building*, shall be designed using  $R = 1$  in the formula in Sentence 4.1.9.1.(4), with the conditions

- (a) the minimum and maximum value of the product  $S \cdot I$  shall be taken as 1.5 and 3.0, respectively,
- (b) the overturning moment reduction coefficient, J, as set forth in Sentence 4.1.9.1.(2) shall be 1.0, and
- (c) the torsional requirements of Sentence 4.1.9.1.(22) shall apply.

(4) The design for any structural system which has an assigned value of R of 3 or higher shall ensure that when any member yields, the remaining members of the structure shall be capable of resisting 25 per cent of the design seismic force including the effects of torsion.

(5) For *buildings* in velocity- or acceleration-related seismic zones of 2 and higher in which discontinuities in columns or shear walls occur, special design provisions shall be made to ensure that failure at the point of discontinuity will not occur before the capacity of the remaining portion of the structure has been realized.

(6) In velocity- or acceleration-related seismic zones of 2 and higher, reinforcement conforming to Clause 5.10.4. of CSA-S304, "Masonry Design for Buildings" shall be provided for masonry construction in



- (a) *loadbearing* and lateral load-resisting masonry,
- (b) masonry enclosing elevator shafts and stairways, or used as *exterior cladding*, and
- (c) masonry *partitions*, except for *partitions* which,
  - (i) do not exceed  $200 \text{ kg/m}^2$  in weight, and
  - (ii) do not exceed 3 m in height and are laterally supported at the top.

#### 4.1.9.4. Foundation Provisions.

(1) *Foundations* shall be designed so that yielding will occur first in the superstructure and not the *foundations*, unless the design specifically provides otherwise.

(2) Except in velocity-related seismic Zone 0, individual *pile* footings, drilled piers and caissons shall be interconnected by ties in at least 2 directions.

(3) Ties in Sentence (2) shall be designed to carry by tension or compression a horizontal force equal to the greatest factored *pile* cap loading multiplied by a factor 0.5v, but not exceeding 10 per cent of the greatest factored *pile* cap load, unless it can be demonstrated that equivalent restraints can be provided by other means.

(4) Except in velocity-related seismic Zone 0, *piles* shall be connected to the *pile* cap or structure by reinforcement having sufficient anchorage to develop the yield strength of the reinforcement, and the top of the *piles* (below the *pile* cap) shall be reinforced to allow ductile behaviour if the design depends upon such action.

(5) Except in velocity-related seismic Zones 0 and 1, *basement* walls shall be designed to resist seismic lateral pressures from back fill or natural ground.

#### 4.1.10. Other Effects

##### 4.1.10.1. Loads on Guards

(1) The minimum specified load applied horizontally and normal to the span at the top of every required *guard* shall be

- (a) 0.6 kN/m for exterior balconies of individual residential units and a concentrated load of 0.9 kN applied concurrently,
- (b) 1.5 kN/m for *exits* and stairs,
- (c) 3.6 kN/m, for grandstands and stadia including ramps,
- (d) 4.4 kN/m for vehicle guard rails for parking garages applied 500 mm above the roadway but not less than 11 kN uniformly distributed over each vehicle space applied 500 mm above the roadway,
- (e) a concentrated load of 0.55 kN applied at any point for access walkways to equipment platforms, contiguous stairs and similar areas where the gathering of many people is improbable, and
- (f) 2.2 kN/m for locations other than described in Clauses (a) to (e).

(2) Individual elements within the *guard*, including solid panels and pickets, shall be designed for 1 kPa or 0.45 kN of concentrated load at any point in the element, whichever results in the more critical loading condition.

(3) The loads in Sentence (2) need not be considered to act simultaneously with the loads provided for in Sentences (1) and (4).

(4) The minimum specified load applied vertically at the top of every required *guard* shall be 1.5 kN/m and need not be considered to act simultaneously with the horizontal load provided for in Sentence (1).

**4.1.10.2. Loads on Walls.** Where the floor elevation on one side of a wall, including a wall around a shaft, is not less than 600 mm greater than the elevation of the floor or ground on the other side, the wall shall be designed to resist the appropriate lateral design loads prescribed elsewhere in this Section or 0.5 kPa, whichever produces the greatest effect.

##### 4.1.10.3. Firewalls

(1) *Firewalls* shall be designed to resist the maximum effect due to:

- (a) the appropriate lateral design loads prescribed elsewhere in this Section, or
- (b) a factored lateral load of 0.5 kPa under fire conditions as described in Sentence (2).

(2) Under fire conditions, when the *fire-resistance rating* of the structure is less than that of the *firewall*, lateral support shall be assumed to be provided by the structure on one side only.

#### 4.1.10.4. Vibrations and Impact of Machinery and Equipment

(1) Where vibration effects, such as resonance and fatigue resulting from machinery or equipment, are likely to be significant, a dynamic analysis shall be carried out.

(2) The minimum specified load due to equipment, machinery or other objects that may produce impact shall be the sum of the weight of the equipment or machinery and its maximum lifting capacity, multiplied by an appropriate factor listed in Table 4.1.10.A.

**Table 4.1.10.A.**  
Forming Part of Sentence 4.1.10.4.(2)

Factors for the Calculation of Impact Loads	
Impact Due To	Factor
Operation of motor driven cranes	1.25
Operation of hand driven cranes	1.10
Operation of elevators	See CAN3-B44-M Clauses 2.6.2. and 2.10(c)
Supports for light machinery, shaft or motor driven	1.20
Supports for reciprocating machine (e.g. compressors) or power driven units (e.g. piston engines)	1.50
Column 1	2

(3) Crane runway rails shall be designed to resist a lateral force applied normal to the top of the rails equal to at least 20 per cent of the sum of the weights of the lifted load and the crane trolley (excluding other parts of the crane) in the case of power operated trolleys, and equal to at least 10 per cent of the sum of the weights in the case of hand operated trolleys.

(4) The force described in Sentence (3) shall be equally distributed on each side of the runway and shall be assumed to act in either direction.

(5) Crane runway rails shall be designed to resist a lateral force applied parallel to the top of the rail equal to at least 10 per cent of the maximum wheel loads of the crane.

#### 4.1.10.5. Resonances and Sway Forces

(1) Where the fundamental vibration frequency of a structural system supporting an *assembly occupancy* used for rhythmic activities, such as dancing, concerts, jumping exercises or gymnastics, is less than 6 Hz, the effects of resonance shall be investigated by means of a dynamic analysis.

(2) The floor assembly and other structural elements that support fixed seats in any *building* used for *assembly occupancies* to accommodate large numbers of people at one time, such as grandstands, stadia and *theatre* balconies, shall be designed to resist a horizontal force equal to at least 0.3 kN for each metre length of seats acting parallel to each row of seats, and at least 0.15 kN for each metre length of seat acting at right angles to each row of seats, assuming such forces to be acting independently of each other.

#### 4.1.10.6. Bleachers

(1) Bleachers shall be checked by the erector after erection to ensure that all structural members including bracing specified in the design have been installed.

(2) Telescopic bleachers shall be provided with locking devices to ensure stability while in use.

#### 4.1.10.7. Window Cleaning

(1) Every *building* which exceeds 3 *storeys* in *building height* shall be provided with anchor systems for window cleaning operations where these operations are intended to be done from the exterior of the *building*.

(2) Except as provided in Sentence (3), such anchor systems shall be installed in conformance with Section 4 of the CSA Standard Z91, "Safety Code for Window Cleaning Operations".

- (3) Other anchor systems may be used where such systems do not provide a lesser level of safety.

## Section 4.2 Foundations

### 4.2.1. General

4.2.1.1. This Section applies to *excavations* and *foundation* systems for *buildings*.

### 4.2.2. Subsurface Investigations and Reviews

4.2.2.1. **Subsurface Investigation.** A *subsurface investigation* shall be carried out, which shall include *groundwater* conditions.

4.2.2.2. Reserved.

### 4.2.2.3. Review

(1) A review shall be carried out by the *designer* or by another suitably qualified person to ensure that the subsurface conditions are consistent with the design and that construction is carried out in accordance with the design and good engineering practice.

- (2) The review required in Sentence (1) shall be carried out

(a) on a continuous basis

- (i) during the construction of all *deep foundation units* with all pertinent information recorded for each unit, and
- (ii) during the installation and removal of retaining structures and related backfilling operations, and

(b) as required, unless otherwise directed by the *authority having jurisdiction*,

- (i) in the construction of all *shallow foundation units*, and
- (ii) in excavating, dewatering and other related works.

### 4.2.2.4. Altered Subsurface Condition

(1) Where during construction the *soil*, *rock* or *groundwater* is found not to be of the type or in the condition used in design, and as indicated on the drawings, the design shall be reassessed by the *designer*.

(2) Where during construction climatic or any other conditions have changed the properties of the *soil*, *rock* or *groundwater*, the design shall be reassessed by the *designer*.

### 4.2.3. Materials Used in Foundations

4.2.3.1. **Wood.** Wood used in *foundations* or in support of *soil* or *rock* shall conform with the appropriate requirements of Subsection 4.3.1.

### 4.2.3.2. Preservation Treatment of Wood

(1) Wood exposed to *soil* or air above the lowest anticipated *groundwater* table shall be treated with preservative in conformance with CAN/CSA O80-M, "Wood Preservation" and the requirements of the appropriate commodity standard as follows:

- (a) CSA O80.2-M, "Preservative Treatment of Lumber, Timber, Bridge Ties and Mine Ties by Pressure Processes",
- (b) CSA O80.3-M, "Preservative Treatment of Piles by Pressure Processes", or
- (c) CSA O80.15-M, "Preservative Treatment of Wood for Building Foundation Systems, Basements and Crawl Spaces by Pressure Processes".

(2) Where timber has been treated as set forth in Sentence (1), it shall be cared for as provided in CSA O80-M4, "Care of Preservative Treated Wood Products".

4.2.3.3. **Plain and Reinforced Masonry.** Plain or reinforced masonry used in *foundations* or in support of *soil* or *rock* shall conform with the requirements of Subsection 4.3.2.

4.2.3.4. **Prevention of Deterioration of Masonry.** Where plain or reinforced masonry in *foundations* or in structures supporting *soil* or *rock* may be subject to conditions conducive to deterioration, protection shall be provided to prevent such deterioration.



**4.2.3.5. Concrete.** Plain, reinforced or prestressed concrete used in *foundations* or in support of *soil* or *rock* shall conform with the requirements of Subsection 4.3.3.

**4.2.3.6. Chemical Attack of Concrete.** Where concrete in *foundations* may be subject to chemical attack, it shall be treated in conformance with the requirements in CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction".

**4.2.3.7. Steel.** Steel used in *foundations* or in support of *soil* or *rock* shall conform with the appropriate requirements of Subsections 4.3.3. or 4.3.4., unless otherwise specified in Section 4.2.

#### **4.2.3.8. Steel Piles**

(1) Where steel piles are used in *deep foundations* and act as permanent load-carrying members, the steel shall conform with one of the following standards:

- (a) CAN3-G40.21-M, "Structural Quality Steels",
- (b) ASTM A252, "Welded and Seamless Steel Pipe Piles",
- (c) ASTM A283M, "Low and Intermediate Tensile Strength Carbon Steel Plates, Shapes and Bars",
- (d) ASTM A570/570M, "Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality", or
- (e) ASTM A611, "Steel, Cold-Rolled Sheet, Carbon, Structural".

**4.2.3.9. High Strength Steel Tendons.** Where high strength steel is used for tendons in anchor systems used for the permanent support of a *foundation* or in the erection of temporary support of *soil* or *rock* adjacent to an *excavation*, it shall conform with the requirements of CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction".

**4.2.3.10. Corrosion of Steel.** Where conditions are corrosive to steel, adequate protection of exposed steel shall be provided.

#### **4.2.4. Design Requirements**

##### **4.2.4.1. Design Basis**

(1) The design of *foundations*, *excavations* and *soil*-and *rock*-retaining structures shall be based on a *subsurface investigation* carried out by a person competent in this field of work, and one of the following:

- (a) application of generally accepted geotechnical and civil engineering principles by a person especially qualified in this field of work as provided in this Section and other Sections of Part 4,
- (b) established local practice where such practice includes successful experience both with *soils* and *rocks* of similar type and condition and with a *foundation* or *excavation* of similar type, construction method, size and depth, or
- (c) in situ testing of *foundation units* such as the load testing of *piles*, anchors or footings carried out by a person competent in this field of work.

**4.2.4.2. Subsurface Investigation.** A *subsurface investigation* shall be carried out to the depth and extent to which the *building* or *excavation* will significantly change the stress in the *soil* or *rock*, or to such a depth and extent as to provide all the necessary information for the design and construction of the *excavation* or the *foundations*.

**4.2.4.3. Identification.** The identification and classification of *soil*, *rock* and *groundwater* and descriptions of their engineering and physical properties shall be in accordance with a widely accepted system.

**4.2.4.4. Loads on Foundations.** The *foundation* of a *building* shall be capable of resisting all loads as stipulated in Section 4.1.

**4.2.4.5. Differential Movements.** The *foundation* of a *building* shall be proportioned so that the estimated total and differential movements of the *foundation* are not greater than the movements that the *building* is designed to accommodate.

##### **4.2.4.6. Depth of Foundations**

(1) Except as permitted in Sentence (2), the *bearing surface* of a *foundation* shall be below the level of potential damage, including damage resulting from *frost action*, and the *foundation* shall be designed to prevent damage resulting from *adfreezing* and frost jacking.

(2) The *bearing surface* of a *foundation* need not be below the level of potential damage from frost where the *foundation*



- (a) is designed against *frost action*, or
- (b) overlies material not susceptible to *frost action*.

**4.2.4.7. Sloping Ground.** Where a *foundation* is to rest on, in or near sloping ground, this particular condition shall be provided for in the design.

**4.2.4.8. Eccentric and Inclined Loads.** Where there is eccentricity or inclination of loading in *foundation units*, this effect shall be fully investigated and provided for in the design.

**4.2.4.9. Dynamic Loading.** Where dynamic loading conditions apply, *allowable loads* or *allowable bearing pressures* shall be assessed by a special investigation of these conditions.

**4.2.4.10. Hydrostatic Uplift.** Where a *foundation* or any part of a *building* is subject to hydrostatic uplift the effects shall be provided for in the design.

**4.2.4.11. Groundwater Level Change.** Where proposed construction will result in a temporary or permanent change in the *groundwater level*, the effects of this change on adjacent property shall be fully investigated and provided for in the design.

**4.2.4.12. Permafrost.** Where conditions of permafrost or perennially frozen *soil* or *rock* are encountered or proven to exist, the design of the *foundation* shall be based upon analysis of these conditions by a person especially qualified in that field of work.

**4.2.4.13. Swelling and Shrinking Soils.** Where swelling or shrinking *soils*, in which movements resulting from moisture content changes may be sufficient to cause damage to a structure, are encountered or known to exist, such a condition shall be fully investigated and provided for in the design.

**4.2.4.14. Expanding and Deteriorating.** Where *rock* which expands or deteriorates when subjected to unfavourable environmental conditions or to stress release is known to exist such condition shall be fully investigated and provided for in the design.

#### **4.2.4.15. Construction on Fill**

(1) *Buildings* may be placed on *fill* if it can be shown by *subsurface investigation* that

- (a) the *fill* is or can be made capable of supporting the *design loads*,
- (b) detrimental movement of the *building* or services leading to the *building* will not occur, and
- (c) explosive gases can be controlled or do not exist.

**4.2.4.16. Structural Design.** The structural design of the *foundation* of a *building*, the procedures and construction practices shall conform with the appropriate Sections of this Code unless otherwise specified in Section 4.2.

#### **4.2.5. Excavations**

**4.2.5.1. Design of Excavations.** The design of *excavations* and of supports for the sides of *excavations* shall conform with the requirements of Subsection 4.2.4. and to this Subsection.

##### **4.2.5.2. Excavation Construction**

(1) Every *excavation* shall be undertaken in such a manner as to

- (a) prevent movement which would cause damage to adjacent property, existing structures, utilities, roads and sidewalks at all stages of construction, and
- (b) Reserved.

(2) Material shall not be placed nor shall equipment be operated or placed in or adjacent to an *excavation* in a manner that may endanger the integrity of the *excavation* or its supports.

**4.2.5.3. Supported Excavations.** The sides of an *excavation* in *soil* or *rock* shall be supported by a retaining structure conforming with the requirements of Articles 4.2.5.1. and 4.2.5.2., except as permitted in Article 4.2.5.4.

**4.2.5.4. Unsupported Excavations.** The sides of an *excavation* in *soil* or *rock* may be unsupported where a design is prepared by a person especially qualified in this field of work in conformance with the requirements of Articles 4.2.5.1. and 4.2.5.2.

**4.2.5.5. Control of Water Around Excavations.** Surface water, all *groundwater*, *perched* and in particular *artesian groundwater* shall be kept under control at all stages of *excavation* and construction.

**4.2.5.6. Loss of Ground.** At all stages of *excavation* and construction, loss of ground due to water or any other cause shall be prevented.

**4.2.5.7. Protection and Maintenance at Excavations.** All sides of an *excavation*, supported and unsupported, shall be continuously maintained and protected from possible deterioration by construction activity or by the action of frost, rain and wind.

**4.2.5.8. Backfilling**

(1) Where an *excavation* is backfilled, the backfill shall be placed so as to

- (a) provide lateral support to the *soil* adjacent to the *excavation*, and
- (b) prevent detrimental movements.

(2) The material used as backfill or *fill* supporting a footing, *foundation* or a floor on *grade* shall be of a type that is not subject to detrimental volume change with changes in moisture content and temperature.

**4.2.6. Shallow Foundations**

**4.2.6.1. Design of Shallow Foundations.** The design of *shallow foundations* shall be in conformance with Subsection 4.2.4. and the requirements of this Subsection.

**4.2.6.2. Support of Shallow Foundations.** Where a *shallow foundation* is to be placed on *soil* or *rock*, the *soil* or *rock* shall be cleaned of loose and unsound material and shall be adequate to support the *design load* taking into account temperature, precipitation, construction activities and other factors which may lead to changes of the properties of *soil* or *rock*.

**4.2.6.3. Incorrect Placement of Shallow Foundations.** Where a *shallow foundation unit* has not been placed or located as indicated on the drawings, the error shall be corrected or the *design bearing pressure* of the *foundation unit* recalculated for the altered conditions.

**4.2.6.4. Damaged Shallow Foundations.** Where a *shallow foundation unit* is damaged, it shall be repaired or the *design bearing pressure* of the *foundation unit* recalculated for the damaged condition.

**4.2.7. Deep Foundations**

**4.2.7.1. General.** A *deep foundation unit* shall provide support for a *building* by transferring loads by end-bearing to a competent stratum at considerable depth below the structure, or by mobilizing resistance by adhesion or friction, or both, in the *soil* or *rock* in which it is placed.

**4.2.7.2. Design for Deep Foundations**

(1) *Deep foundation units* shall be designed in conformance with Subsection 4.2.4. and this Subsection.

(2) Where *deep foundation units* are load tested, as required in Clause 4.2.4.1.(1)(c), the determination of the number and type of load test and the interpretation of the results shall be carried out by a person especially qualified in this field of work.

(3) Where *deep foundation units* are not load tested as outlined in Clause 4.2.4.1.(1)(c), and where well established local practice as outlined in Clause 4.2.4.1.(1)(b) is not applicable, the design procedures and the appropriate factors of safety shall be determined by a person especially qualified in this type of work.

**4.2.7.3. Allowable Load on a Deep Foundation**

(1) The *allowable load* on a *deep foundation* shall be determined on the basis of geotechnical considerations taking into account

- (a) the method of installation,
- (b) the degree of inspection,
- (c) the spacing of *foundation units* and group effects, and
- (d) other requirements of this Subsection.

(2) The *allowable load* on a *deep foundation* as determined in Sentence (1) shall not be greater than the unfactored load determined on the basis of structural considerations in accordance with the appropriate requirements of Subsections 4.3.1., 4.3.3. and 4.3.4.

(3) The portion of a *deep foundation unit* permanently in contact with *soil* or *rock* shall be structurally designed as a laterally supported compression member.

(4) The portion of a *deep foundation unit* which is not permanently in contact with *soil* or *rock* shall be structurally designed as a laterally unsupported compression member.

(5) The structural design of prefabricated *deep foundation units* shall allow for all stresses resulting from driving, handling and testing.

**4.2.7.4. Tolerance in Alignment and Location.** Permissible deviations from the design alignment and the location of the top of *deep foundation units* shall be determined by design analysis, and shall be indicated on the drawings.

**4.2.7.5. Incorrect Alignment and Location.** Where a *deep foundation unit* has not been placed within the permissible deviations referred to in Article 4.2.7.4., the condition of the *foundation* shall be assessed by the person responsible for the design, any necessary changes made and action taken as required.

#### **4.2.7.6. Installation of Deep Foundations**

(1) *Deep foundation units* shall be installed in such a manner as not to impair

- (a) the strength of the *deep foundation units* and the properties of the *soil* or *rock* on or in which they are placed beyond the calculated or anticipated limits,
- (b) the integrity of previously installed *deep foundation units*, or
- (c) the integrity of neighbouring structures and services.

**4.2.7.7. Damaged Deep Foundation Units.** Where inspection shows that a *deep foundation unit* is damaged or not consistent with design or good engineering practice, the *allowable load* of such a unit shall be reassessed by the person responsible for the design, any necessary changes made and action taken as required.

#### **4.2.8. Special Foundations**

**4.2.8.1. General.** Where special *foundation* systems are used, such systems shall conform to Subsection 4.2.4.

**4.2.8.2. Use of Existing Foundations.** Existing *foundations* may be used to support new or altered *buildings* provided they comply with all pertinent requirements of Section 4.2.

### **Section 4.3 Design Requirements for Structural Materials**

#### **4.3.1. Wood**

**4.3.1.1. Design Basis for Wood.** *Buildings* and their structural members made of wood shall conform to CAN3-O86, "Engineering Design in Wood" or CAN/CSA-O86.1-M, "Engineering Design in Wood - Limit States Design".

**4.3.1.2. Glue-Laminated Members.** Glued-laminated members shall be fabricated in plants conforming to CAN/CSA O177-M, "Qualification Code for Manufacturers of Structural Glued-Laminated Timber".

**4.3.1.3. Termites.** In areas known to be infested by termites, the requirements in Articles 9.3.2.9., 9.12.1.1., 9.16.5.1. and 9.18.4.1. shall apply.

#### **4.3.2. Plain and Reinforced Masonry**

**4.3.2.1. Design Basis for Plain and Reinforced Masonry.** *Buildings* and their structural members made of plain and reinforced masonry shall conform to CAN-S304M, "Masonry Design for Buildings".

#### **4.3.3. Plain, Reinforced and Prestressed Concrete**

**4.3.3.1. Design Basis for Plain, Reinforced and Prestressed Concrete.** *Buildings* and their structural members made of plain, reinforced or prestressed concrete shall conform to CAN3-A23.3-M, "Design of Concrete Structures for Buildings".

#### **4.3.4. Steel**

**4.3.4.1. Design Basis for Structural Steel.** *Buildings* and their structural members made of structural steel shall conform to CAN/CSA-S16.1-M, "Limit States Design of Steel Structures".

**4.3.4.2. Design Basis for Cold Formed Steel.** *Buildings* and their structural members made of cold formed steel shall conform to CAN/CSA-S136-M, "Cold Formed Steel Structural Members".

#### **4.3.5. Aluminum**

**4.3.5.1. Design Basis for Aluminium.** *Buildings* and their structural members made of aluminum shall conform to CAN3-S157-M, "Strength Design in Aluminum".

**4.3.6. Glass**

**4.3.6.1.** Glass shall be designed in conformance with CAN/CGSB-12.20-M, "Structural Design of Glass for Buildings".

**Section 4.4 Design Requirements for Special Structures****4.4.1. Air-Supported Structures**

**4.4.1.1. Design Basis for Air-Supported Structures.** The structural design of *air-supported structures* shall conform to CAN3-S367-M, "Air-Supported Structures".

**4.4.2. Parking Structures**

**4.4.2.1. Design Basis for Parking Structures.** Parking structures shall be designed in conformance with CAN/CSA-S413 "Parking Structures".

**4.4.3. Guards Over Retaining Walls**

**4.4.3.1. Guards Over Retaining Walls.** Every retaining wall which is a designated structure in Subsection 2.1.2. shall be protected by *guards* on all open sides where the public has access to open space at the top of the retaining wall.



**Part 5**  
**Wind, Water and Vapour Protection**

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## Part 5

### Wind, Water and Vapour Protection

#### Section 5.1 General

##### 5.1.1. Scope

5.1.1.1. The scope of this Part shall be as described in Section 2.1.

##### 5.1.2. Application

5.1.2.1. This Part applies to the design of a *building* assembly such as a wall, floor, roof, floor-ceiling combination or roof-ceiling combination with respect to the control of *groundwater*, condensation and the penetration of wind and rain.

##### 5.1.3. Definitions

5.1.3.1. Reserved.

##### 5.1.4. Other Design and Structural Requirements

5.1.4.1. The design and structural requirements of other Parts of this Code shall apply.

#### Section 5.2 Control of Vapour Diffusion

##### 5.2.1. Vapour Barriers

5.2.1.1. Where a *building* assembly that would be adversely affected by condensation will be subjected to a temperature differential and a differential in water vapour pressure, the assembly shall have a continuous vapour barrier at a location that will prevent condensation within the assembly.

##### 5.2.2. Assemblies with Low Permeance Exterior Components

##### 5.2.2.1. Protection

(1) Where a material or combination of materials that have a resistance to water vapour flow equivalent to that of a vapour barrier are used on the low vapour pressure side of the material that has the major thermal resistance in a *building* assembly

- (a) a continuous vapour barrier, for use in above-grade *building* construction, shall be installed on the high vapour pressure side, and
- (b) an air space ventilated to the outside or other method of equal effectiveness shall be provided for removing the water vapour that may pass from the high vapour pressure side through the material with the major thermal resistance.

#### Section 5.3 Control of Air Leakage

##### 5.3.1. Air Barriers

##### 5.3.1.1. Locations

(1) Where a *building* assembly will be subjected to a temperature differential, a differential in water vapour pressure and a differential in air pressure due to stack effect, mechanical systems or wind, the assembly shall be designed to provide an effective barrier to air exfiltration and infiltration, at a location that will prevent condensation within the assembly, through

- (a) the materials of the assembly,
- (b) joints in the assembly,
- (c) joints in components of the assembly, and
- (d) junctions with other *building* elements.

#### Section 5.4 Control of Rain Penetration

##### 5.4.1. Joints

5.4.1.1. Joints in *exterior cladding* and the junctions of different *exterior claddings* shall be constructed to minimize the entrance of rain water into the *building* assembly.

#### 5.4.2. Openings

**5.4.2.1.** An opening in an exterior wall or roof shall be so constructed as to prevent the entrance of rain or snow into the *building*.

#### 5.4.3. Roofing

##### 5.4.3.1. Installation

(1) Roofing shall be installed so as to

- (a) shed or drain water effectively,
- (b) reduce the likelihood, when the roofing is comprised of overlapping units, of water backing up under the units due to ice damming or other cause, and
- (c) be resistant to damage due to wind.

#### 5.4.4. Parapets

##### 5.4.4.1. Protection

(1) Where the top of a wall is exposed to the weather

- (a) it shall be capped, and
- (b) a through-wall flashing shall be installed immediately under a segmented or pervious cap, and at such other points in the wall as are necessary to divert rainwater to the outside.

#### 5.4.5. Exterior Wall Cladding

**5.4.5.1.** Exterior wall cladding shall be so installed that it sheds water to prevent its entry into other components of the *building* assembly. Where there is a likelihood of some penetration, drainage shall be provided to take water to the outside.

### Section 5.5 Control of Groundwater

#### 5.5.1. Through-Wall Flashing

**5.5.1.1.** Where moisture from the ground can move upward into a wall and cause deterioration of the materials in the wall assembly, a through-wall flashing shall be installed in the wall below the materials likely to be so affected.

#### 5.5.2. Dampproofing and Waterproofing

**5.5.2.1.** The portion of an exterior *basement* wall below ground level or any floor slab in contact with the ground shall be dampproofed or waterproofed as appropriate.

#### 5.5.3. Crawl Spaces

**5.5.3.1. Ground Cover.** Crawl spaces shall be provided with a ground cover.

**5.5.3.2. Slope.** Unless *groundwater* levels and site conditions are such that water will not accumulate in the crawl space, the crawl space shall be sloped to drain to a sewer, ditch or dry well.

### Section 5.6 Materials

#### 5.6.1. Specifications

**5.6.1.1.** Materials used for *exterior claddings*, vapour barriers, air barriers, flashings, thermal insulations or fastening devices shall comply with the appropriate standards listed in Part 2.

#### 5.6.2. Deterioration

**5.6.2.1.** A material exposed to corrosive conditions shall be corrosion-resistant or shall be resistant to deterioration under those conditions.

#### 5.6.3. Fastening Devices

**5.6.3.1.** Fastening devices shall be made of a material which is compatible with the materials to be so joined and shall be resistant to the type of corrosion likely to be present.

**Section 5.7 Practices****5.7.1. Installation**

**5.7.1.1. General.** *Exterior claddings*, vapour barriers, air barriers, thermal insulations, sheathing papers, flashings and fastening devices shall be installed in such a manner as to effectively perform their intended functions.

**5.7.1.2. Glass.** Glass shall be designed and installed to resist the loads specified in Section 4.1.

**5.7.1.3. Exterior Cladding**

- (1) *Exterior cladding* shall be securely fastened to backing that is
  - (a) an integral structural element of a *building*, or
  - (b) an element added to the structure for the purpose of supporting such *exterior cladding*.
- (2) Backing for *exterior cladding* as provided for in Sentence (1) shall be suitably located, secured and of a kind suitable for the type of fasteners to be used for attachment.
- (3) *Exterior cladding* shall be designed, constructed and attached so as to accommodate stresses and deformations within the structure, the cladding system and all points of attachment caused by wind, earthquake and temperature effects.



## Part 6

### Heating, Ventilating and Air-Conditioning

Section 6.1	General
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6.1.2.	Application
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6.1.4.	Plans and Specifications
Section 6.2	Design and Installation
6.2.1.	General
6.2.2.	Ventilation
6.2.3.	Air Duct Systems
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6.2.5.	Heating Appliances, General
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6.2.7.	Unit Heaters
6.2.8.	Radiators and Convectors
6.2.9.	Piping For Heating and Cooling Systems
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Section 6.3	Chimneys and Venting Equipment
6.3.1.	General

## Part 6

### Heating, Ventilating and Air-Conditioning

#### Section 6.1 General

##### 6.1.1. Scope

6.1.1.1.(1) The scope of this Part shall be as described in Section 2.1.

6.1.1.1.(2) Where the method of operation of an existing heating, ventilating or *air-conditioning* system is altered, the repair, adjustment or component replacements that change the capacity or extent of safety of the system shall conform to this Code.

##### 6.1.2. Application

6.1.2.1. This Part applies to systems and equipment for heating, ventilating and *air-conditioning* services.

##### 6.1.3. Definitions

6.1.3.1. Reserved.

##### 6.1.4. Plans and Specifications

6.1.4.1. Reserved.

#### Section 6.2 Design and Installation

##### 6.2.1. General

###### 6.2.1.1. Good Engineering Practice

(1) Heating, ventilating and *air-conditioning* systems, including related mechanical refrigeration systems, shall be designed, constructed and installed to conform to good engineering practice appropriate to the circumstances such as described in

(a) the ASHRAE Handbooks as follows:

- (i) 1987 HVAC Systems and Applications,
- (ii) 1988 Equipment,
- (iii) 1989 Fundamentals, and
- (iv) 1990 Refrigeration,

(b) the NFPA Fire Codes (1990 Publication),

(c) the HRAI Digest 1986,

(d) the Hydronics Institute Manuals,

(e) the SMACNA Manuals, and

(f) the American Conference of Governmental Industrial Hygienists Industrial Ventilation Manual, 20th Edition 1989.

###### 6.2.1.2. Capacity of Heating Appliances

(1) *Buildings* classified as Group B, Division 2 *institutional occupancies* or Group C *residential occupancies* that are intended for use in the winter months on a continuing basis shall be insulated and be equipped with heating facilities that are capable of maintaining an indoor air temperature of 22°C at the outside winter design temperature referred to in Article 6.2.1.8.

(2) All other *buildings* intended for occupancy in the winter months on a continuing basis should be insulated and shall be equipped with heating facilities to maintain a minimum indoor air temperature of 18°C or commensurate with the use of the *building* at the outside winter design temperature described in Article 6.2.1.8.

6.2.1.3. **Structural Movement.** Mechanical systems and equipment shall be designed and installed to accommodate the maximum amount of relative structural movement provided for in the *construction* of the *building*.

###### 6.2.1.4. Installation Standards

(1) The installation of solid fuel-burning *appliances* for central heating systems shall comply with CAN/CSA

B365, "Installation Code for Solid Fuel-Burning Appliances and Equipment" and the manufacturer's installation instructions.

(2) The solid fuel-fired *appliances* in Sentence (1) shall conform to CSA B366.1, "Solid Fuel-Fired Appliances for Residential Use".

**6.2.1.5. Solid Fuel-Burning Stoves, Ranges and Space Heaters.** The design and installation of solid fuel-burning *stoves, ranges* and *space heaters* shall conform to the requirements of Section 9.33.

**6.2.1.6. Fireplaces.** Fireplaces shall conform to the requirements of Section 9.22.

**6.2.1.7.** Reserved.

**6.2.1.8. Outside Design Conditions.** The outside conditions to be used in designing heating, ventilating and *air-conditioning* systems shall be determined in conformance with Subsection 2.5.1.

**6.2.1.9. Installation - General**

(1) Equipment forming part of a heating, ventilating or *air-conditioning* system, with the exception of embedded pipes or ducts, shall be installed with provision for access for inspection, maintenance, repair and cleaning.

(2) Mechanical equipment shall be protected with *guards* to prevent injury to the public or maintenance staff.

(3) Equipment forming part of a heating or *air-conditioning* system that may be adversely affected by freezing temperatures and that is located in an unheated area shall be protected from freezing.

**6.2.1.10. Expansion, Contraction and System Pressure.** Heating and cooling systems shall be designed to allow for expansion and contraction of the heat transfer fluid and to maintain the system pressure within the rated working pressure limits of all components of the system.

**6.2.1.11. Asbestos.** Asbestos shall not be used in air distribution systems or equipment in a form or in a location where asbestos fibres could enter the air supply or return systems.

**6.2.1.12. Access Openings.** Any covering of an access opening through which a person could enter shall be openable from the inside without the use of keys where there is a possibility of the opening being accidentally closed while the system or equipment is being serviced.

**6.2.1.13. Combustible Tubing.** *Combustible* tubing for pneumatic controls may be used in *buildings* required to be of *noncombustible construction* providing it has an outside diameter not exceeding 10 mm.

**6.2.2. Ventilation**

**6.2.2.1. Required Ventilation**

(1) Except as provided in Sentences (2) and 6.2.2.2.(2), all rooms and spaces in *buildings* shall be ventilated in accordance with this Part.

(2) Self-contained mechanical ventilation systems, such as kitchen and bathroom exhaust fans, serving only 1 *dwelling unit* shall conform to the requirements of Section 9.32.

(3) Except for Group C and Group F *occupancies*, mechanical ventilation throughout the occupied zone shall be not less than 7.5 L/s per person of outdoor air.

**6.2.2.2. Natural Ventilation**

(1) The ventilation of room and spaces in *occupancies* other than *residential occupancies* by natural methods shall be permitted in lieu of mechanical ventilation where such ventilation will provide sufficient air change to provide healthful conditions in that *occupancy*.

(2) The ventilation of room or spaces by natural methods in Group B, Division 2 *institutional occupancies* or Group C, *residential occupancies* shall conform to Section 9.32.

**6.2.2.3. Ventilation of Storage and Repair Garages**

(1) Except as provided in Sentences (5) and (7), an enclosed *storage garage* shall have a mechanical ventilation system designed to

(a) limit the concentration of carbon monoxide to not more than 100 parts per million of air when measured between 900 mm and 1 200 mm from the floor, or

- (b) provide, during operating hours, a continuous supply of fresh air at a rate equal to not less than 3.9 L/s for each square metre of floor area.

(2) A repair garage shall have a mechanical ventilation system designed to limit the exposure of workers to carbon monoxide to below the time weighted average concentration of 35 parts per million for a normal 8 hour workday or 40 hour work week. When a repair bay is not immediately adjacent to an outside garage door opening, continuous general ventilation of not less than 700 L/s per internal bay shall be provided.

(3) Mechanical ventilation systems provided in accordance with Clause (1) (a) shall be controlled automatically by carbon monoxide monitoring devices, located so as to provide full protection throughout the *storage garage*.

(4) Mechanical ventilation systems provided in accordance with Sentence (1) shall be designed such that the pressure in the *storage garage* is less than the pressure in adjoining *buildings* of other *occupancy*, or in adjacent portions of the same *building* having a different *occupancy*.

(5) In *storage garages* subject to the requirements of Sentence (1), where motor vehicles are parked by mechanical means, the ventilation requirements may be reduced by one half.

(6) Except as provided in Sentence (7), ticket and attendant booths of *storage garages* shall be pressurized with a supply of fresh air.

(7) The requirements of Sentences (1) to (6) shall not apply to *open-air storeys* in a *storage garage*.

#### 6.2.2.4. Air Contaminants

(1) Systems serving spaces shall be designed to exhaust air contaminants released within *buildings* insofar as possible at their points of origin so as to prevent their accumulation in unsafe concentrations.

(2) Systems serving spaces that contain sources of contamination shall be designed in such a manner as to prevent spreading of such contamination to other occupied parts of the *building* and surrounding areas.

(3) Heating, ventilating and *air conditioning* systems shall be designed to minimize growth of micro-organisms according to good engineering practice as described in 6.2.1.1.(1).

(4) Mechanical rooms containing refrigeration equipment shall be ventilated in accordance with CSA B52-M, "Mechanical Refrigeration Code".

**6.2.2.5. Hazardous Gases, Dusts or Liquids.** Systems serving spaces that contain hazardous gases, dusts or liquids such as grain elevators, metal powder plants and ammonium nitrate storage shall be designed, constructed and installed in conformance with the provisions of the Ontario Fire Code made under the Fire Marshals Act, or in the absence of requirements pertinent to such systems in the Ontario Fire Code, to good engineering practice such as is described in the publications of the National Fire Protection Association and in the National Fire Code of Canada 1990.

**6.2.2.6. Commercial Cooking Equipment.** Systems for the ventilation of restaurant and other commercial cooking equipment shall be designed, constructed and installed to conform to NFPA 96, "Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment", except as required by Sentences 3.5.3.1.(1) and Article 3.5.4.2.

**6.2.2.7. Crawl Spaces, Attic or Roof Spaces.** Every crawl space and every *attic or roof space* shall be ventilated by natural or mechanical means.

#### 6.2.3. Air Duct Systems

##### 6.2.3.1. Application

(1) Where ducts serve a heating, ventilation and *air conditioning* system in which the rated heat input exceeds 120 kW, they shall conform to this Subsection.

(2) The design, *construction* and installation of air duct distribution system serving other than single family dwellings shall conform to this Subsection.

##### 6.2.3.2. Materials in Air Duct Systems

(1) Except as provided in Sentences (2) to (4) and in Article 3.5.4.3. and except in single family dwellings, all ducts, duct connectors, associated fittings and *plenums* used in air duct systems shall be constructed of steel, aluminum alloy, copper, clay, asbestos-cement or similar *noncombustible* material.

(2) Ducts, associated fittings and *plenums* may contain limited amounts of *combustible* material provided they



- (a) conform to the appropriate requirements for Class 1 duct materials in ULC-S110, "Standard for Air Ducts",
- (b) conform to Article 3.1.5.14.(1) and Subsection 3.1.9.,
- (c) are not used in vertical runs serving more than 2 storeys, and
- (d) are not used in air duct systems in which the air temperature may exceed 120°C.

(3) Duct sealants shall have a *flame-spread rating* of not more than 25 and a smoke developed classification of not more than 50.

(4) Duct connectors that contain *combustible* materials and that are used between ducts and air outlet units shall

- (a) conform to the appropriate requirements for Class 1 air duct materials in ULC-S110, "Standard for Air Ducts",
- (b) be limited to 4 m in length,
- (c) be used only in horizontal runs, and
- (d) not penetrate required *fire separations*.

(5) Materials in Sentences (1) to (4) which when used in a location where they may be subjected to excessive moisture shall have no appreciable loss of strength when wet and shall be corrosion-resistant.

#### 6.2.3.3. Connections and Openings in Air Duct Systems

(1) Air duct systems shall have tight-fitting connections throughout, and shall have no openings other than those required for proper operation, inspection and maintenance of the system.

(2) Except for systems that serve one *dwelling unit* only, access openings shall be provided in duct systems where lint, grease, debris, paper or other combustible material may accumulate in *plenums* and ducts.

#### 6.2.3.4. Connectors

(1) Vibration isolation connectors in air duct systems shall be *noncombustible*, except that *combustible* fabric connectors are permitted provided they

- (a) do not exceed 250 mm in length,
- (b) comply with the flame-resistance requirements of ULC-S109, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", and
- (c) are not used in a location where they are exposed to heated air or radiation from heat sources that may cause the exposed surface to exceed a temperature of 120°C.

6.2.3.5. **Tape.** Tape used for sealing joints in air ducts, *plenums* and other parts of air duct systems shall meet the flame-resistance requirements for fabric in ULC-S109, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

#### 6.2.3.6. Coverings, Linings, Adhesives and Insulation

(1) Coverings, linings and associated adhesives and insulation of air ducts, *plenums* and other parts of air duct systems shall be of *noncombustible* material when exposed to heated air or radiation from heat sources that would result in the exposed surface exceeding a temperature of 120°C.

(2) When *combustible* coverings and linings, including associated adhesives and insulation, are used, they shall have a *flame-spread rating* of not more than 25 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, and a smoke developed classification of not more than 50, except that the outer covering of ducts, *plenums* and other parts of air duct systems used within an assembly of *combustible construction* may have an exposed surface *flame-spread rating* of not more than 75 and may have a smoke developed classification greater than 50.

(3) *Combustible* coverings and linings in Sentence (2) shall not flame, glow, smoulder or smoke when tested in accordance with the method of test in ASTM C411, "Hot-Surface Performance of High-Temperature Thermal Insulation" at the maximum temperature to which the coverings and linings are to be exposed in service.

(4) Except as provided in Sentence (5), foamed plastic insulation shall not be used as part of an air duct or for insulating an air duct.

(5) Foamed plastic insulation may be used in a ceiling space that acts as a return air *plenum* provided the foamed plastic insulation is protected from exposure to the *plenum* in accordance with Article 3.1.5.11.

(6) *Combustible* coverings and linings of ducts, including associated adhesives and insulation, shall be interrupted at the immediate area of operation of heat sources in a duct system, such as electric resistance heaters or fuel-burning heaters or *furnaces*, and where the duct penetrates a *fire separation*.

(7) Linings of ducts shall be installed so that they will not interfere with the operation of volume or balancing dampers, *fire dampers*, *fire stop flaps* and other *closures*.

**6.2.3.7. Underground Ducts.** Underground ducts shall be constructed to provide interior drainage from and access to all low points and shall not be connected directly to a sewer.

**6.2.3.8. Clearances.** The clearances from *combustible* material and supply *plenums*, *supply ducts*, boots and register boxes of heating systems shall conform to the requirements of Subsection 6.2.4.

**6.2.3.9. Fire Dampers.** *Fire dampers* shall conform to the requirements of Article 3.1.8.9.

**6.2.3.10. Exhaust Ducts and Outlets**

(1) Except as provided in Sentence (2), *exhaust ducts* of nonmechanical ventilating systems serving separate rooms or spaces shall not be combined.

(2) *Exhaust ducts* of nonmechanical ventilating systems serving similar *occupancies* may be combined immediately below the point of final delivery to the outside, such as at the base of a roof ventilator.

(3) *Exhaust ducts* of ventilating systems shall have provision for the removal of condensation where this may be a problem.

(4) Exhaust outlets shall be designed to prevent back draft under wind conditions.

(5) *Exhaust ducts* directly connected to laundry drying equipment shall be independent of other *exhaust ducts*.

(6) Except as provided in Sentence (9) and except for self-contained systems serving individual *dwelling units*, *exhaust ducts* serving rooms containing water closets, urinals, basins, showers or slop sinks shall be independent of other *exhaust ducts*.

(7) Except for wash basins (lavatories), the exhaust air provided shall not be less than 24 L/s for each sanitary fixture listed in Sentence (6).

(8) Except as provided in Sentence (9) and except for self-contained systems serving individual *dwelling units*, *exhaust ducts* serving rooms containing residential cooking equipment shall be independent of other *exhaust ducts*.

(9) Two or more exhaust systems described in Sentences (6) and (8) may be interconnected or connected with *exhaust ducts* serving other areas of the *building* provided the connections are made at the inlet of an exhaust fan and all interconnected systems are equipped with suitable back pressure devices to prevent passage of odours from one system to another when the fan is not in operation.

(10) Where *exhaust ducts* containing air from heated spaces pass through or are adjacent to unheated spaces, the ducts shall be insulated to prevent moisture condensation in the duct in accordance with Sentence 6.2.4.3.(10).

(11) Sanitary facilities in a food premises shall be mechanically ventilated and shall be capable of exhausting air at the rate of not less than 24 L/s for each sanitary fixture listed in Sentence (6).

**6.2.3.11. Interconnection of Systems**

(1) Air duct systems serving *storage garages* shall not be interconnected with other parts of the *building*.

(2) In a *residential occupancy*, air from one *suite* shall not be circulated to any other *suite* nor to a *public corridor* or public stairway.

(3) Except for Sentences (4) and (5), a *public corridor* shall not be used as a portion of a supply, return or exhaust air system serving adjoining areas, other than as part of a supply air system serving toilet rooms, bathrooms, shower rooms and similar auxiliary spaces opening directly to the *public corridor*.

(4) A *public corridor* may be used as part of an engineered smoke control system.

(5) Infiltration due to corridor pressurization is permitted into a *residential occupancy* from a *public corridor*.

**6.2.3.12. Make-up Air.** In ventilating systems that exhaust air to the outdoors, provision shall be made for the admission of a supply of make-up air in sufficient quantity so that the operation of the exhaust system and other exhaust equipment or combustion equipment is not adversely affected.

**6.2.3.13. Supply, Return, Intake and Exhaust Air Openings**

(1) Supply, return and exhaust air openings in rooms or spaces in *buildings* when located less than 2 m above the floor shall be protected by grilles having openings of a size that will not allow the passage of a 15 mm diameter sphere.

(2) *Combustible* grilles, diffusers and other devices for supply, return and exhaust air openings in rooms shall conform to the *flame-spread rating* and smoke developed classification requirements for the interior finish of the surface on which they are installed.

(3) Outdoor air intakes and exhaust outlets at the *building* exterior shall be designed or located so that the air entering the *building* system will not contain more contaminants than the normal exterior air of the locality in which the *building* is situated.

(4) Exterior openings for outdoor air intakes and exhaust outlets shall be shielded from the entry of snow and rain and shall be fitted with corrosion-resistant screens of mesh not larger than 15 mm, except where climatic conditions may require larger openings.

(5) Screens required in Sentence (4) shall be accessible for maintenance.

**6.2.3.14. Filters and Odour Removal Equipment**

(1) Air filters for air duct systems shall conform to the requirements for Class 2 air filter units as described in CAN4-S111, "Standard Method of Fire Tests For Air Filter Units".

(2) When electrostatic-type filters are used, they shall be installed so as to ensure that the electric circuit is automatically de-energized when filter access doors are opened and in *dwelling units* when the system circulating fan is not operating.

(3) When odour removal equipment of the adsorption type is used it shall be

(a) installed to provide access so that adsorption material can be reactivated or renewed, and

(b) protected from dust accumulation by air filters installed on the inlet side.

(4) Facilities for flushing and drainage shall be provided where filters are designed to be washed in place.

**6.2.3.15. Air Washers and Evaporative Cooling Sections or Towers**

(1) The filter and water evaporation medium of every air washer and evaporative cooling section enclosed within a *building* shall be made of *noncombustible* material.

(2) Sumps for air washer and evaporative cooling sections shall be constructed and installed so that they can be flushed and drained.

(3) Evaporative cooling sections or towers of *combustible* material located on or outside *buildings* shall have a clearance of not less than 12 m from sources of ignition such as *chimneys* or incinerators when the tower exterior construction is *noncombustible*, and a clearance of not less than 30 m when the tower exterior construction is *combustible*.

(4) Evaporative cooling sections or towers, the main structure of which exceeds a volume of 55 m<sup>3</sup>, shall comply with the requirements of NFPA 214, "Water-Cooling Towers".

**6.2.3.16. Fans and Associated Air Handling Equipment**

(1) Fans for heating, ventilating and *air-conditioning* systems shall be located and installed so that their operation

(a) does not adversely affect the draft required for proper operation of fuel-fired *appliances*, and

(b) does not allow the air in the air duct system to be contaminated by air or gases from the *boiler-room* or *furnace-room*.

(2) Fans and associated air handling equipment, such as air washers, filters and heating and cooling units, when installed on the roof or elsewhere outside the *building*, shall be of a type designed for outdoor use.

**6.2.4. Air Ducts for Low Capacity Systems****6.2.4.1. Application**

(1) The design, *construction* and installation of air duct distribution systems serving heating, ventilation and *air conditioning* systems in which the rated heat input does not exceed 120 kW shall conform to this Subsection.

(2) The design, *construction* and installation of air duct distribution systems serving heating, ventilation and *air conditioning* systems in single family dwellings shall conform to this Subsection.

**6.2.4.2. Galvanized Steel or Aluminum Supply Ducts**

(1) Galvanized steel or aluminum *supply ducts* shall conform to Table 6.2.4.A.

**Table 4.2.4.A.**  
Forming part of Sentence 6.2.4.2.(1)

MINIMUM METAL THICKNESS OF DUCTS, mm				
Type of Duct	Maximum Diameter mm	Minimum Width or Depth, mm	Duct Material	
			Galvanized Steel	Aluminum
Round	350	—	0.33	0.30
	Over 350	—	0.41	0.41
Rectangular, enclosed	—	350	0.33	0.30
	—	Over 350	0.41	0.41
Rectangular, not enclosed for single dwelling units with required clearance up to 12 mm	—	350	0.33	0.41
	—	Over 350	0.41	0.48
Rectangular, not enclosed, with required clearance of more than 12 mm	—	350	0.41	0.41
	—	Over 350	0.48	0.48
Column 1	2	3	4	5

(2) The design of fittings for ducts shall conform to CSA B228.1, "Pipes, Ducts, and Fittings for Residential Type Air Conditioning Systems", except that metal thickness requirements shall conform to those in Table 6.2.4.A.

**6.2.4.3. Construction and Installation of Ducts and Plenums**

(1) Rectangular panels in *plenums* and ducts more than 300 mm wide shall be shaped to provide sufficient stiffness.

(2) Where the installation of heating *supply ducts* in walls and floors creates a space between the duct and construction material, the space shall be fire stopped with *noncombustible* material at each end.

(3) Ducts shall be securely supported by metal hangers, straps, lugs or brackets, except that where zero clearance is permitted, wooden brackets may be used.

(4) All round duct joints shall be tight-fitting and lapped not less than 25 mm.

(5) Rectangular duct connections shall be made with S and drive cleats or equivalent mechanical connections.

(6) Trunk *supply ducts* shall not be nailed directly to wood members.

(7) Branch ducts shall be supported at suitable spacings to maintain alignment and prevent sagging.

(8) *Combustible* ducts in concrete slabs-on-ground that are connected to a *furnace supply plenum* shall be located not closer than 600 mm to that *plenum* and not less than 600 mm from its connection to a riser or register.

(9) Ducts in or beneath concrete slabs-on-ground shall be watertight, corrosion-, decay- and mildew-resistant.

(10) Where a *supply* or *return duct* is not protected by an insulated exterior wall or where the duct is exposed to an unheated space it shall be insulated to provide a thermal resistance of not less than RSI 2.1.



**6.2.4.4. Clearances of Ducts and Plenums**

- (1) Reserved.
- (2) Where the *plenum* clearance is 75 mm or less, the clearance between a *supply duct* and *combustible* material shall
  - (a) be equal to the required *plenum* clearance within 450 mm of the *plenum*, and
  - (b) be not less than 12 mm at a distance of 450 mm or more from the *plenum*, except that this clearance may be reduced to zero beyond a bend or offset in the duct sufficiently large to shield the remainder of the duct from direct radiation from the *furnace* heat exchanger.
- (3) Where the *plenum* clearance is more than 75 mm but not more than 150 mm, the clearance between a *supply duct* and *combustible* material shall
  - (a) be equal to the required *plenum* clearance within a horizontal distance of 1.8 m of the *plenum*, and
  - (b) be not less than 12 mm at a horizontal distance of 1.8 m or more from the *plenum*, except that this distance may be reduced to zero beyond a bend or offset in the duct sufficiently large to shield the remainder of the duct from direct radiation from the *furnace* heat exchanger.
- (4) Where the *plenum* clearance is more than 150 mm, the clearance between a *supply duct* and *combustible* material shall
  - (a) be equal to the required *plenum* clearance within a horizontal distance of 1 m of the *plenum*,
  - (b) be not less than 150 mm within a horizontal distance between 1 and 1.8 m from the *plenum*, and
  - (c) be not less than 25 mm at a horizontal distance of 1.8 m or more from the *plenum*, except that this distance may be reduced to 8 mm beyond a bend or offset in the duct sufficiently large to shield the remainder of the *supply duct* from direct radiation from the *furnace* heat exchanger.

(5) Where a register is installed in a floor directly over a pipeless *furnace*, a double-walled register box with not less than 100 mm between walls, or a register box with the warm-air passage completely surrounded by the cold-air passage, shall be permitted in lieu of the clearances listed in Sentences (2), (3) and (4).

**6.2.4.5. Warm-Air Supply Outlets**

- (1) A warm-air supply outlet shall be provided in each finished room in a *dwelling unit*. When rooms are located adjacent to exterior walls or unheated space, such outlets shall be located so as to bathe not less than one exterior wall or window with warm air, except in bathrooms, utility rooms or kitchens, where this may not be practical.
- (2) Reserved.
- (3) Not less than one warm-air supply outlet shall be provided for each 40 m<sup>2</sup> of floor surface area in unfinished *basements* serving *dwelling units*, located so as to provide adequate distribution of warm air throughout the *basement*.
- (4) Except for pipeless *furnaces* and floor *furnaces*, the capacity of warm-air supply outlets serving *dwelling units* shall be not less than the design heat loss from the area served and shall not exceed 3 kW per outlet.
- (5) In *basements* and heated crawl spaces, the calculated heat gain from the *supply ducts* and *plenum* surfaces may be considered in calculating the design heat loss.
- (6) Warm-air supply outlets located in finished areas shall be provided with diffusers and adjustable openings and shall not be located on a *furnace plenum*.
- (7) The temperature of supply air at the warm-air supply outlets shall not exceed 70°C.

**6.2.4.6. Concrete Slabs-on-Grade.** Warm-air supply systems for residential *buildings* built on concrete slabs-on-ground shall be installed in the slab and shall be of the perimeter loop type or radial perimeter type.

**6.2.4.7. Adjustable Dampers and Balance Stops.** All branch *supply ducts* for residential systems shall be equipped with volume control dampers at the boot to permit balancing or shall be fitted with a diffuser incorporating an adjustable and lockable volume control device which can be set in a fixed position.

**6.2.4.8. Return-Air System**

- (1) The return-air system shall be designed to handle the entire air supply.

(2) Except as provided in Sentences (3) and (4), *return ducts* shall be constructed of material having a surface *flame-spread rating* of not more than 150.

(3) Where any part of a *return duct* will be exposed to radiation from the *furnace* heat exchanger or other radiating part within the *furnace*, such part of a *return duct* directly above or within 600 mm of the outside *furnace* casing shall be *noncombustible*.

(4) *Return ducts* serving solid fuel-fired *furnaces* shall be constructed of *noncombustible* material.

(5) *Combustible return ducts* shall be lined with *noncombustible* material below floor registers, at the bottom of vertical ducts and under *furnaces* having a bottom return.

(6) Spaces between studs used as *return ducts* shall be separated from the unused portions of such spaces by tight-fitting metal stops or wood blocking.

(7) A vertical *return duct* shall have openings to return air on not more than 1 floor.

(8) A *public corridor* shall comply with Sentences 6.2.3.11.(3) and (4).

(9) The return-air system shall be designed so that the negative pressure from the circulating fan cannot affect the *furnace* combustion air supply nor draw combustion products from joints or openings in the *furnace* or *flue pipe*.

(10) Return-air inlets shall not be installed in an enclosed room or crawl space that provides combustion air to a fuel-fired *appliance*.

(11) Return-air from a *dwelling unit* shall not be recirculated to any other *dwelling unit*.

(12) Except for floor levels that are less than 900 mm above or below an adjacent floor level which is provided with a return-air inlet, at least one return-air inlet shall be provided in each floor level in a *dwelling unit*.

(13) Provision shall be made for the return of air from all rooms by leaving gaps beneath doors, using louvred doors or installing *return duct* inlets.

#### 6.2.5. Heating Appliances, General

**6.2.5.1. Location of Appliances.** Except for *appliances* installed in *dwelling units*, fuel-fired heating *appliances* shall be located, enclosed or separated from the remainder of the *building* in conformance with Section 3.5.

#### 6.2.5.2. Appliances Installed Outside the Building

(1) Fuel-fired *appliances* installed on the roof of a *building* or otherwise outside the *building* shall be

- (a) designed for outdoor use,
- (b) installed not less than 1.2 m from the property line, measured horizontally, and
- (c) installed not less than 3 m from an adjacent wall of the same *building* when such wall contains an opening or openings within 3 *storeys* above and 5 m horizontally from the *appliance*, unless such openings are protected by a *closure* assembly having a 45 min *fire-protection rating* determined in conformance with Article 3.1.8.4., or by wired glass conforming to Article 3.1.8.14.

#### 6.2.6. Incinerators

**6.2.6.1. Applicable Standard.** The design, construction, installation and *alteration* of every indoor incinerator shall conform to NFPA 82, "Incinerators, Waste and Linen Handling Systems and Equipment".

**6.2.6.2. Venting.** Every incinerator shall be served by a *chimney flue* conforming to Section 6.3.

#### 6.2.7. Unit Heaters

**6.2.7.1.** Every *unit heater* using either steam or hot water as the heating medium shall be installed with a clearance of not less than 25 mm between the *appliance* and adjacent *combustible* material.

#### 6.2.8. Radiators and Convectors

**6.2.8.1.** Every steam or hot water radiator and convector located in a recess or concealed space or attached to the face of a wall of *combustible construction* shall be provided with a *noncombustible* lining or backing.

6.2.9. Piping for Heating and Cooling Systems

6.2.9.1. Piping Materials and Installation

- (1) Piping shall be made from materials designed to withstand the effects of temperatures and pressures that may occur in the system.
- (2) Every pipe used in a heating or *air-conditioning* system shall be installed to allow for expansion and contraction due to temperature changes.
- (3) Supports and anchors for piping in a heating or *air-conditioning* system shall be designed and installed to ensure that undue stress is not placed on the supporting structure.

6.2.9.2. Insulation and Coverings

- (1) Insulation and coverings on pipes shall be composed of material suitable for the operating temperature of the system to withstand deterioration from softening, melting, mildew and mould.
- (2) Insulation and coverings on pipes in which the temperature of the fluid exceeds 120°C
  - (a) shall be made of *noncombustible* material, or
  - (b) shall not flame, glow, smoulder or smoke when tested in accordance with the method of test ASTM C411, "Hot-Surface Performance of High-Temperature Thermal Insulation", at the maximum temperature to which such insulation or covering is to be exposed in service.
- (3) Except as provided in Sentence (7), where *combustible* insulation is used on piping in a *horizontal* or *vertical service space*, the insulation and coverings on such pipes shall have a *flame-spread rating* throughout the material of not more than 25 in *buildings of noncombustible construction* and not more than 75 in *buildings of combustible construction*.
- (4) Except as provided in Sentence (7), insulation and coverings on piping located in rooms and spaces other than the *service spaces* described in Sentence (3) shall have a *flame-spread rating* of not more than that required for the interior finish for the ceiling of the room or space.
- (5) Except as provided in Sentence (7), where *combustible* insulation and covering is used on piping in *buildings* described in Subsection 3.2.6., they shall have a smoke developed classification of not more than 100.
- (6) Pipes that are exposed to human contact shall be insulated so that the exposed surface does not exceed 70°C.
- (7) No *flame-spread rating* or smoke developed classification limitations are required where *combustible* insulation and coverings are used on piping when such piping is
  - (a) located within a concealed space in a wall,
  - (b) located in a floor slab, or
  - (c) enclosed in a *noncombustible* raceway or conduit.

6.2.9.3. **Clearances.** Clearances between *combustible* material and bare pipes carrying steam or hot water shall conform to Table 6.2.9.A.

Table 6.2.9.A.  
Forming Part of Article 6.2.9.3.

Steam or Water Temperature, °C	Minimum Clearance, mm
up to 120	15
above 120	25
Column 1	2

6.2.9.4. **Surface Temperature.** The exposed surface temperature of a steam or hot water radiator shall not exceed 70°C unless precautions are taken to prevent human contact.

6.2.9.5. Protection

- (1) Where a pipe carrying steam or hot water at a temperature above 120°C passes through a *combustible*

floor, ceiling or wall, the construction shall be protected by a sleeve of metal or other *noncombustible* material not less than 50 mm larger in diameter than the pipe.

(2) Unprotected steam or hot water pipes that pass through a storage space shall be covered with not less than 25 mm of *noncombustible* insulation to prevent direct contact with the material stored.

**6.2.9.6. Piping in Shafts.** Where piping for heating or *air-conditioning* systems is enclosed in a shaft, the requirements of Article 3.5.3.1. for shafts shall apply.

## **6.2.10. Refrigerating Systems and Equipment for Air-Conditioning**

### **6.2.10.1. Cooling Units**

(1) Where a cooling unit is combined with a fuel-fired *furnace* in the same duct system, the cooling unit shall be installed

- (a) in parallel with the heating *furnace*,
- (b) upstream of the *furnace* provided the *furnace* is designed for such application, or
- (c) downstream of the *furnace* provided the cooling unit is designed to prevent excessive temperature or pressure in the refrigeration system.

### **6.2.11. Storage Bins**

#### **6.2.11.1. Storage Bins**

(1) Service pipes passing through a storage bin for solid fuel shall be protected or so located as to avoid damage to the pipes.

(2) Except for fuel-thawing pipes, every pipe designed to operate at a temperature of 50°C or above shall be located where fuel cannot be stored in contact with it.

(3) A storage bin for solid fuel shall not be located above a sewer opening or drain opening.

(4) Solid fuels shall not be stored where the air temperature in the bin or the surface temperature of any part of the floor or walls is 50°C or above.

#### **6.2.11.2. Ash Storage Bins**

(1) Every ash storage bin shall be constructed of *noncombustible* material and, where the bin is not covered, the ceiling of the room in which it is located shall be of *noncombustible* material.

(2) Every opening in an ash storage bin shall be protected by a tight-fitting metal door with metal frame securely fastened to the bin.

## **Section 6.3 Chimneys and Venting Equipment**

### **6.3.1. General**

**6.3.1.1. Requirement for Venting.** Except as provided in Articles 6.3.1.2. and 6.3.1.3., the products of combustion from solid fuel-burning *appliances* shall be vented in conformance with the requirements in the applicable *appliance* installation standards listed in Article 6.2.1.4.

#### **6.3.1.2. Masonry or Concrete Chimneys**

(1) Rectangular *masonry or concrete chimneys* not more than 12 m in height that serve *appliances* with a combined total rated heat output of 120 kW or less, or that serve fireplaces, shall conform to Part 9.

(2) *Masonry or concrete chimneys* other than those described in Sentence (1) shall be designed and installed in conformance with the appropriate requirements in NFPA 211, "Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances".

**6.3.1.3. Metal Smoke Stacks.** Single wall metal smoke stacks shall be designed and installed in conformance with NFPA 211, "Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances".

**6.3.1.4.** Reserved.

#### **6.3.1.5. Access Ladders**

(1) Access ladders for *chimneys*, when provided, shall consist of steel or bronze rungs, built into the walls of the *chimneys*.

(2) Rungs for external ladders shall begin at not less than 2.5 m from ground level.



**Part 7 Reserved**

**Part 8 Reserved**

## Part 9

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## Part 9

### Housing and Small Buildings

#### Section 9.1 General

##### 9.1.1. Scope

**9.1.1.1. Scope.** The scope of this Part shall be as described in Section 2.1.

**9.1.1.2. Signs.** Signs shall conform to the requirements in Section 3.8.

**9.1.1.3. Self-Service Storage Buildings.** *Self-service storage buildings* shall conform to the requirements in Section 3.10.

**9.1.1.4. Tents, Air-Supported Structures and Temporary Structures.** Tents, *air-supported structures* and temporary structures shall conform to the requirements in Subsection 3.1.6.

**9.1.1.5. Proximity to Existing Above Ground Electrical Conductors.** Where a *building* is constructed in close proximity to existing above ground electrical conductors the requirements of Subsection 3.1.18. shall apply.

#### Section 9.2 Definitions

##### 9.2.1. General

**9.2.1.1. Defined Words.** Words in italics are defined in Part 1.

#### Section 9.3 Materials, Systems and Equipment

##### 9.3.0. General

**9.3.0.1. Past Performance or Tests.** Materials, *appliances*, systems and equipment not specifically described herein, or which vary from the specific requirements in this Part, or for which no recognized test procedure has been established, may be used if it can be shown that the material, *appliance*, system or equipment is suitable on the basis of past performance or on the basis of tests described in Article 9.3.0.2.

**9.3.0.2. Design of Test.** Where no published test method exists, the test shall be designed to simulate or exceed anticipated service conditions or shall be designed to compare the performance of the material, *appliance*, system or equipment with similar material, *appliance*, system or equipment that is known to be acceptable.

##### 9.3.1. Concrete

**9.3.1.1. Concrete.** Concrete shall be designed, mixed, placed, cured and tested in accordance with CAN3-A438, "Concrete Construction for Housing and Small Buildings".

**9.3.1.2. Cement.** Cement shall meet the requirements of CAN3-A5, "Portland Cements".

##### 9.3.1.3. Concrete in Contact with Sulphate Soil

(1) Sulphate-resisting cement shall be used for concrete in contact with sulphate soil deleterious to normal cement. Such concrete shall conform to the requirements in Section 16 of CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction".

(2) Sulphate-resisting cement shall be used for concrete referred to in Sentence (1).

**9.3.1.4. Aggregates.** Aggregates shall consist of sand, gravel, crushed rock, crushed air-cooled blast furnace slag, expanded shale or expanded clay conforming to CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction". Aggregate shall be clean, well-graded and free of injurious amounts of organic and other deleterious material.

**9.3.1.5. Water.** Water shall be clean and free of injurious amounts of oil, organic matter, sediment or any other deleterious material.

**9.3.1.6. Compressive Strength.** Unless otherwise specifically required elsewhere in this Part, the compressive strength of unreinforced concrete shall be not less than 15 MPa after 28 days.

**9.3.1.7. Concrete for Garage and Concrete Floors and Exterior Steps.** When concrete is used for garage and carport floors and exterior steps, it shall have a minimum compressive strength of 25 MPa after 28 days and shall have air entrainment of 5 to 8 per cent.

**9.3.1.8. Concrete Mixes**

(1) The concrete mixes described in Table 9.3.1.A. shall be acceptable if the slump does not exceed 100 mm when measured according to the slump test described in CAN3-A23.2, "Methods of Test for Concrete".

(2) Aggregate for mixes referred to in Sentence (1) shall not exceed 50 mm in size.

**Table 9.3.1.A.**  
Forming Part of Article 9.3.1.8.

Concrete Mixes, by Volume			
Concrete Strength MPa	Cement, parts	Sand, parts	Coarse Aggregate, parts
15	1	2	4
	1	—	6, pit run gravel
20	1	1 <sup>3</sup> / <sub>4</sub>	3, up to 40 mm in size
	1	—	4 <sup>3</sup> / <sub>4</sub> , pit run gravel
Column 1	2	3	4

**9.3.1.9. Admixtures.** Admixtures shall conform to CAN3-A266.1, "Air Entraining Admixtures for Concrete" or CAN3-A266.2, "Chemical Admixtures for Concrete", as applicable.

**9.3.1.10. Reinforced Concrete.** Reinforced concrete shall be designed to conform to the requirements of Part 4.

**9.3.1.11. Cold Weather Requirements**

(1) When the air temperature is below 5°C, concrete shall be kept at a temperature of not less than 10°C or more than 25°C while being mixed and placed, and maintained at a temperature of not less than 10°C for 72 h after placing.

(2) No frozen material or ice shall be used in concrete described in Sentence (1).

**9.3.2. Lumber and Wood Products**

**9.3.2.1. Grade Marking.** Lumber for joists, rafters, trusses and beams and for the uses listed in Table 9.3.2.A. shall be identified by a grade stamp to indicate its grade as determined by the NLGA "Standard Grading Rules for Canadian Lumber".

Table 9.3.2.A.  
Forming Part of Article 9.3.2.1.

Minimum Lumber Grades for Specific End Uses				
Use	BOARDS			FRAMING
	Paragraph in the NLGA grading rules under which boards are graded			
	All Species		Eastern White Pine & Red Pine	All Species
	Para 113	Para 114	Para 118	
Stud wall framing (loadbearing members)	—	—	—	Standard Stud, No. 2
Stud wall framing (non-loadbearing members)	—	—	—	Stud, Utility No. 3
Plank frame construction (loadbearing members)	No. 3 Common	—	No. 3 Common	No. 2
Plank frame construction (non-loadbearing members)	No. 5 Common	—	No. 5 Common	Economy, No. 3
Posts and beams less than 114 mm in thickness	—	—	—	Standard, No. 2
Posts and beams at least 114 mm in thickness	—	—	—	Standard
Roof sheathing	No. 3 Common	Standard	No. 4 Common	—
Subflooring	No. 3 Common	Standard	No. 4 Common	—
Wall sheathing when required as a nailing base	No. 4 Common	Utility	No. 4	—
Wall sheathing not required as a nailing base	No. 5 Common	Economy	No. 5	—
Column 1	2	3	4	5

**9.3.2.2. Lumber Grades.** Except for joists, rafters, trusses and beams, visually graded lumber shall conform to the grades in Table 9.3.2.A.

**9.3.2.3. Machine Stress Rated Lumber.** Machine stress rated lumber shall conform to the requirements of Subsection 4.3.1.

**9.3.2.4. Waferboard, Strandboard and Plywood Marking.** Waferboard and plywood used for roof sheathing, wall sheathing and subflooring shall be legibly identified on the face of the material indicating the manufacturer of the material, the standard to which it is produced and that the material is of an exterior type.

**9.3.2.5. Moisture Content.** Moisture content of lumber shall be not greater than 19 per cent at the time of installation.

**9.3.2.6. Lumber Dimensions.** Lumber dimensions referred to in this part are actual dimensions determined in conformance with CSA 0141, "Softwood Lumber".

**9.3.2.7. Panel Thickness Tolerances.** The thicknesses specified in this Part for plywood, hardboard, particle-board and waferboard shall be subject to the tolerances permitted in the standards referenced for these products unless specifically indicated herein.

**9.3.2.8. Undersized Lumber.** Joist, rafter, lintel and beam members up to 5 per cent less than the actual Cana-

dian standard sizes may be used provided the allowable spans for the grade and species of lumber under consideration are reduced 5 per cent from those shown in the span tables for full size members.

#### 9.3.2.9. Termite Resistance

(1) Where wood is pressure treated to resist termites, such treatment shall be in accordance with the requirements of

- (a) CAN/CSA 080.1, "Preservative Treatment of All Timber Products by Pressure Processes,"
- (b) CAN/CSA 080.2, "Preservative Treatment of Lumber, Timber, Bridge Ties and Mine Ties by Pressure Processes,"
- (c) CAN/CSA 080.9, "Preservative Treatment of Plywood by Pressure Processes," or
- (d) CAN/CSA 080.15, "Preservative Treatment of Wood for Building Foundation Systems, Basements and Crawl Spaces by Pressure Processes."

#### 9.3.3. Metal

**9.3.3.1. Sheet Metal Thickness.** Minimum thicknesses for sheet metal material given in this Part refer to the actual minimum thicknesses measured at any point of the material, and in the case of galvanized steel, includes the thickness of the coating unless otherwise indicated.

**9.3.3.2. Galvanized Sheet Metal.** Where galvanized sheet metal is intended for use in locations exposed to the weather or as a flashing material, it shall have a zinc coating at least equal to the G90 coating designation in ASTM A525, "Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process".

### Section 9.4 Structural Requirements

#### 9.4.1. General

##### 9.4.1.1. Structural Design.

(1) Except as provided in Sentence (2), Sentence 9.23.4.1.(2) and Subsections 9.4.2. to 9.4.4., structural members and their connections shall be designed in conformance with Part 4.

(2) Where structural members and their connections conform to the requirements listed elsewhere in this Part, it shall be deemed that the structural design requirements have been met.

**9.4.1.2. Post, Beam and Plank Construction.** Except for columns in Section 9.17 and beams in Subsection 9.23.4., wood-frame post, beam and plank construction with the *loadbearing* framing members spaced more than 600 mm apart shall be designed in conformance with Subsection 4.3.1.

#### 9.4.2. Snow Loads

**9.4.2.1. Application.** This Subsection applies to wood frame assemblies with clear spans not exceeding 12.20 m and members spaced not more than 600 mm apart.

##### 9.4.2.2. Design Snow Loads.

(1) Except as provided in Sentences (2) and (3), design snow loads shall not be less than the appropriate composite snow load listed in Column 13 of Table 2.5.1.A.

(2) Where the entire width of a roof does not exceed 4.3 m, the design snow load shall not be less than composite snow load listed in Column 12 of Table 2.5.1.A.

(3) In no case shall the composite snow load be less than 1 kPa.

(4) Bow string, arch or semi-circular roof trusses having an unsupported span greater than 6 m shall be designed in conformance with the snow load requirements in Section 4.1.

**9.4.2.3. Balconies.** Residential balconies not used as passageways shall be designed to carry the design roof snow load or 1.9 kPa, whichever is greater.

#### 9.4.3. Deflections

##### 9.4.3.1. Deflections

(1) The maximum deflection of structural members shall conform to Table 9.4.3.A.

(2) *Dead loads* need not be considered in computing deflections referred to in Sentence (1).



Table 9.4.3.A.  
Forming Part of Sentence 9.4.3.1.(1)

Maximum Deflections		
Structural Members	Type of Ceiling Supported	Maximum Allowable Deflection Expressed as a Ratio of the Clear Span
Roof rafters, roof joists, roof beams and roof decking of plank and beam construction	No ceiling	1/180
	Other than plaster or gypsum board	1/240
	Plaster or gypsum board	1/360
Ceiling Joists	Other than plaster or gypsum board	1/240
	Plaster or gypsum board	1/360
Floor beams, floor joists and floor decking of plank and beam construction for floor areas other than bedrooms in <i>dwelling units</i>	No ceiling	1/360
	Other than plaster or gypsum board	1/360
	Plaster or gypsum board	1/360
Floor beams, floor joists and floor decking of plank and beam construction for floor areas of bedrooms in <i>dwelling units</i>	No ceiling	1/240
	Other than plaster or gypsum board	1/240
	Plaster or gypsum board	1/360
Column 1	2	3

9.4.4. Foundation Conditions

9.4.4.1. Allowable Bearing Pressures

- (1) Where footing sizes for *shallow foundations* are not determined in conformance with Section 9.15, footings may be designed using maximum *allowable bearing pressures* in Table 9.4.4.A.
- (2) The design procedures described in Section 4.2 may be used in lieu of the design procedures in this Sub-section.
- (3) The design procedures described in Section 4.2 shall be used where
- (a) *deep foundations* are used,
  - (b) the footing size falls outside the scope of this Section, or
  - (c) the foundation is constructed on peat, filled ground or on sensitive clays as described in Article 9.15.1.1.

Table 9.4.4.A.  
Forming Part of Article 9.4.4.1.

Allowable Bearing Pressure for Soil or Rock	
Type and Condition of Soil or Rock	Maximum Allowable Bearing Pressure, kPa
Dense or compact sand or gravel	150
Loose sand or gravel	50
Dense or compact silt	100
Stiff clay	150
Firm clay	75
Column 1	2

Table 9.4.4.A.—(Cont'd)  
Forming Part of Article 9.4.4.1.

Allowable Bearing Pressure for Soil or Rock	
Type and Condition of Soil or Rock	Maximum Allowable Bearing Pressure, kPa
Soft clay	40
Till	200
Clay shale	300
Sound rock	500
Column 1	2

#### 9.4.4.2. Foundation Capacity in Weaker Soil and Rock

(1) Where a *soil* or *rock* within a distance equal to twice the footing width below the *bearing surface* has a lower *allowable bearing pressure* than that at the *bearing surface* as shown in Article 9.4.4.1., the design capacity of the *foundation* shall not be greater than would cause the weakest *soil* or *rock* to be stressed beyond its *allowable bearing pressure*.

(2) In calculating subsurface pressures referred to in Sentence (1), the loads from the footings shall be assumed to be distributed uniformly over a horizontal plane within a frustum extending downward from the footing at an angle of 60° to the horizontal.

**9.4.4.3. High Water Table.** Where a *foundation* bears on gravel, sand or silt, and the water table is within a distance below the *bearing surface* equal to the width of the *foundation*, the *allowable bearing pressure* shall be 50 per cent of that determined in Article 9.4.4.1.

**9.4.4.4. Soil Movement.** Where a *foundation* is located in an area in which soil movement caused by changes in soil moisture content is known to occur to the extent that it will cause significant damage to a *building*, measures shall be taken to minimize the effect of such movement on the *building*.

**9.4.4.5. Retaining Walls.** Walls shall be designed to resist the lateral pressure of the retained material.

#### 9.4.4.6. Walls Supporting Drained Earth

(1) Walls supporting drained earth may be designed for pressure equivalent to that exerted by a fluid with a density of not less than 480 kg/m<sup>3</sup> and having a depth equal to that of the retained earth.

(2) Any surcharge shall be in addition to the equivalent fluid pressure specified in Sentence (1).

### Section 9.5 Room and Space Dimensions

#### 9.5.1. General

**9.5.1.1. Application.** Unless otherwise specifically indicated, this Section applies only to *dwelling units* that are intended for use on a continuing or year-round basis as the principal residence of the occupant.

**9.5.1.2. Method of Measurement.** Unless otherwise indicated herein, the areas, dimensions and heights of rooms or spaces shall be measured between finished wall surfaces and between finished floor and ceiling surfaces.

**9.5.1.3. Floor Areas.** Minimum floor areas specified in this Section do not include closets or built-in bedroom cabinets unless otherwise indicated.

**9.5.1.4. Combination Rooms.** Two or more areas are considered as a combination room if the dividing wall occupies less than 60 per cent of the separating plane.

**9.5.1.5. Lesser Areas and Dimensions.** Areas and dimensions of rooms and spaces may be less than required in this Section provided it can be shown that the rooms and spaces are adequate for their intended use, such as by the provision of built-in furniture to compensate for reduced sizes.

#### 9.5.2. Ceiling Heights

**9.5.2.1. Heights of Room or Spaces.** Heights of rooms or spaces in *residential occupancies* shall conform to Table 9.5.2.A.

Table 9.5.2.A.  
Forming Part of Article 9.5.2.1.

Room Heights	
Room or Space	Minimum Heights
Living room or space, dining room or space, kitchen or kitchen space	2.3 m over at least 75 per cent of the required floor area with a clear height of 2.1 m at any point over the required area
Bedroom or bedroom space	2.3 m over at least 50 per cent of the required area or 2.1 m over all of the required floor area. Any part of the floor having a clear height of less than 1.4 m shall not be considered in computing the required floor area
Unfinished <i>basement</i> including laundry area therein	1.95 m under beams in laundry areas and in any location that would normally be used for passage to laundry and storage areas
Bathroom, water-closet room or laundry area above grade	2.1 m in any area where a person would normally be in a standing position
Passage, hall or main entrance vestibule and finished rooms not specifically mentioned above	2.1 m
Column 1	2

9.5.2.2. **Mezzanines.** The clear height above and below a *mezzanine* floor assembly in all *occupancies* shall be not less than 2.1 m.

9.5.2.3. **Storage Garages.** The clear height in a *storage garage* shall be not less than 2 m.

9.5.3. **Living Rooms or Spaces Within Dwelling Units**

9.5.3.1. **Areas and Dimensions of Living Rooms and Spaces**

(1) Living areas within *dwelling units*, either as separate rooms or in combination with other spaces, shall have an area not less than 13.5 m<sup>2</sup> and shall have no dimension less than 3 m within the required area.

(2) Where the area of a living space is combined with a kitchen and dining area, the living area alone in a *dwelling unit* that contains sleeping accommodation for not more than 2 persons shall be not less than 11 m<sup>2</sup>.

9.5.4. **Dining Rooms or Spaces Within Dwelling Units**

9.5.4.1. **Area of Dining Rooms or Spaces**

(1) A dining space in combination with other space shall have a minimum floor area of 3.25 m<sup>2</sup>.

(2) Dining rooms not combined with other space shall have a minimum area of 7 m<sup>2</sup>.

9.5.4.2. **Dimensions of Dining Rooms or Spaces**

(1) Except as permitted in Sentence (2), a dining room or space combined with other space shall have no dimension less than 2.3 m within the required area measured between wall faces or a wall face and a built-in cabinet or appliance.

(2) When a required dining area is provided in a kitchen or serves a dwelling unit that contains sleeping accommodation for not more than 2 persons, the minimum dimension of such space may be reduced to 1.7 m.

9.5.5. **Kitchens Within Dwelling Units**

9.5.5.1. **Kitchen Areas.** Kitchen areas within *dwelling units* either separate from or in combination with other spaces, shall have an area of not less than 4.2 m<sup>2</sup> including the area occupied by the base cabinets, except that in *dwelling units* containing sleeping accommodation for not more than 2 persons, the minimum area shall be 3.7 m<sup>2</sup>.

9.5.6. **Bedrooms or Spaces in Dwelling Units and Dormitories**

9.5.6.1. **Areas and Dimensions of Bedrooms**

(1) Except as provided in Articles 9.5.6.2. and 9.5.6.3., bedrooms in *dwelling units* shall have at least 7 m<sup>2</sup>

of floor area where built-in cabinets are not provided and 6 m<sup>2</sup> of floor area where built-in cabinets are provided.

(2) The minimum dimension within the required area specified in Sentence (1) shall be 2 m<sup>2</sup>.

#### 9.5.6.2. Areas and Dimensions of Master Bedrooms

(1) Except as provided in Article 9.5.6.3., not less than one bedroom in every *dwelling unit* shall have an area of not less than 9.8 m<sup>2</sup> where built-in cabinets are not provided and not less than 8.8 m<sup>2</sup> where built-in cabinets are provided.

(2) The minimum dimension within the required area in Sentence (1) shall be 2.7 m.

**9.5.6.3. Areas and Dimensions of Combination Bedrooms.** Bedroom spaces in combination with other spaces in *dwelling units* shall have an area not less than 4.2 m<sup>2</sup> and have no dimension less than 2 m within the required area.

#### 9.5.6.4. Areas and Dimensions of Other Sleeping Rooms

(1) Sleeping rooms other than in *dwelling units* shall have an area not less than 7 m<sup>2</sup> per person for single occupancy and 4.6 m<sup>2</sup> per person for multiple occupancy.

(2) The minimum dimension within the required area shall be 2 m.

**9.5.6.5. Recreational Camps.** *Recreational camps* shall have an area in the sleeping quarters of at least 3.72 m<sup>2</sup> per camper or, if double or triple tier bunk units are used, 2.79 m<sup>2</sup> per camper.

**9.5.6.6. Camps for Housing Workers.** A *camp for housing of workers* shall have a minimum area of 3.72 m<sup>2</sup> per employee in every room used for sleeping purposes.

#### 9.5.7. Bathrooms and Water-Closet Rooms

**9.5.7.1. Space to Accommodate Fixtures.** In every *dwelling unit* an enclosed space of sufficient size shall be provided to accommodate a water closet, lavatory and bathtub or shower stall.

#### 9.5.8. Hallways

**9.5.8.1. Width of Hallway Within Dwelling Unit.** The width of a hallway within a *dwelling unit* shall be at least 860 mm, except that in *buildings* not exceeding 4.3 m in width the hallway width may be 710 mm where a second exit is provided near the end of the hallway farthest from the living area.

### Section 9.6 Doors

#### 9.6.1. General

**9.6.1.1. Application.** This Section applies to doors, to glazed areas in doors and to sidelights for doors.

#### 9.6.2. Required Doors

**9.6.2.1. Where Doors are Required.** A door shall be provided at each entrance to a *dwelling unit* and to each room containing a water closet within a *dwelling unit*.

#### 9.6.3. Doorway Sizes

**9.6.3.1. Doorway Opening Sizes.** Except as provided in Articles 9.6.3.3. and 9.9.6.4., doorway openings within *dwelling units* shall be designed to accommodate not less than the door sizes in Table 9.6.3.A. for swing-type or folding doors.

**Table 9.6.3.A.**  
Forming Part of Article 9.6.3.1.

Minimum Size of Doors		
At Entrance to:	Width, mm	Height, mm
<i>Dwelling unit</i> (required entrance) Vestibule or entrance hall	810	1980
Column 1	2	3



Table 9.6.3.A.—(Cont'd)  
Forming Part of Article 9.6.3.1.

Minimum Size of Doors		
At Entrance to:	Width, mm	Height, mm
Stairs to a floor level that contains a finished space All doors in at least one line of passage from the exterior to the <i>basement</i> Utility rooms	810	1980
Walk-in closet	610	1980
Bathroom, water-closet room, shower room (1)	610	1980
Rooms located off hallways that are permitted to be 710 mm wide	610	1980
Rooms not mentioned above, exterior balconies	760	1980
Column 1	2	3

**Note to Table 9.6.3.A:**

(1) See Article 9.6.3.3.

**9.6.3.2. Doors to Public Water-Closet Rooms.** Doors to public water-closet rooms shall be not less than 810 mm in width and 2 030 mm in height.

**9.6.3.3. Barrier-Free Path of Travel.** Where a *barrier-free* path of travel conforming to Section 3.7 is provided into a *suite of residential occupancy* and where a bathroom within the *suite* is at the level of the *suite* entrance door, the doorway to such bathroom and to each bedroom at the same level as such bathroom shall have, when the door is in the open position, a clear width of not less than

- (a) 760 mm where the door is served by a corridor or space not less than 1 060 mm wide, and
- (b) 810 mm where the door is served by a corridor or space less than 1 060 mm wide.

**9.6.4. Exterior Doors**

**9.6.4.1. Exterior Wood Doors**

- (1) Exterior wood doors shall conform to CSA 0132.2, “Wood Doors”.
- (2) Each door described in Sentence (1) shall indicate legibly the name of the manufacturer, the standard to which it is produced and that it is of an exterior type.

**9.6.4.2. Sliding Doors.** Sliding doors shall conform to CAN/CGSB 82.1-M, “Sliding Doors.”

**9.6.4.3. Insulated Steel Doors.** Insulated steel doors shall conform to CAN/CGSB 82.5-M, “Insulated Steel Doors.”

**9.6.4.4. Air Infiltration for Exterior Swing Type Doors.** Except where a door is weather-stripped on all edges, and protected with a storm door, or by an enclosed unheated space, an exterior swing type door assemblies shall have a rate of air infiltration not exceeding  $11.6 \times 10^{-4}$  m³/s for each metre of crack length when tested at a pressure differential of 75 Pa in conformance with ASTM E283, “Standard Method of Test for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors”.

**9.6.4.5. Air Infiltration for Patio Type Sliding Doors.** A patio type sliding glass door shall have a rate of air infiltration not exceeding  $38 \times 10^{-4}$  m³/s for each square metre of door area when tested in conformance with ASTM E283.

**9.6.4.6. Weather Stripping.** In buildings of *residential occupancy* weather-stripping shall be provided around all exterior doors except garage doors.

**9.6.5. Glass**

**9.6.5.1. Maximum Area of Glass.** The maximum area of individual panes of glass for doors shall conform to Table 9.6.5.A.

**Table 9.6.5.A.**  
Forming Part of Article 9.6.5.1.

Maximum Glass Area for Doors, m <sup>2</sup>						
Glass Thickness, mm	Type of Glass					
	Annealed	Annealed Multiple-Glazed, Factory-Sealed Units	Laminated	Wired	Heat Strengthened	Fully Tempered
3	0.50	0.70	(1)	(1)	1.00	1.00
4	1.00	1.50	(1)	(1)	1.50	4.00
5	1.50	1.50	(1)	(1)	1.50	No limit
6	1.50	1.50	1.20	1.00	1.50	No limit
Column 1	2	3	4	5	6	7

**Note to Table 9.6.5.A.:**

(1) Not generally available.

**9.6.5.2. Glass Doors and Sidelights**

(1) Glass in doors and in sidelights for doors shall conform to Sentence 9.7.3.1.(1)

(2) Glass side lights greater than 500 mm in width that could be mistaken for doors, glass in storm doors and glass in sliding doors within or at every entrance to a *dwelling unit* and in public areas shall be safety glass of the laminated or tempered type conforming to CAN2-12.1, "Glass, Safety, Tempered or Laminated", or shall be of wired glass conforming to CAN2-12.11, "Glass, Wired, Safety".

(3) Except as provided in Article 9.7.5.3., glass in entrance doors to *dwelling units* and in public areas, other than the entrance doors described in Sentence (2), shall be safety glass or wired glass of the type described in Sentence (2), where the glass area exceeds 0.5 m<sup>2</sup> and extends to less than 900 mm from the bottom of the door.

**9.6.5.3. Mirrored Glass Doors**

(1) Mirrored glass doors

- (a) may be used only at the entrance to reach-in clothes closets, and
- (b) shall conform to the requirements of CAN/CGSB-82.6 "Doors Mirrored Glass, Sliding or Folding, Wardrobe."

(2) Mirrored glass doors reinforced with a film backing shall meet the impact resistance requirements specified in CGSB-12.5, "Mirrors, Silvered".

**9.6.5.4. Visibility of Glass or Transparent Doors.** Except as provided in Article 9.7.5.3., every glass or transparent door accessible to and used by the public shall be equipped with hardware, bars or other permanent fixtures designed so that the existence and position of such door will be readily apparent.

**9.6.5.5. Glass for Shower or Bathtub Enclosure.** Glass other than safety glass shall not be used for a shower or bathtub enclosure.

**9.6.6. Resistance to Forced Entry**

**9.6.6.1. Application**

(1) Except as permitted in Sentence (2), this Subsection applies to

- (a) swinging entrance doors to *dwelling units*,
- (b) swinging doors between *dwelling units* and attached garages or other ancillary spaces, and
- (c) swinging doors which provide access directly or indirectly from a *storage garage* to a *dwelling unit*.

(2) Sentence (1) does not apply to exterior doors to garages and to other ancillary spaces.

**9.6.6.2. Wood Doors.** Except as permitted in Article 9.6.6.10., wood doors as described in Sentence 9.6.6.1.(1). shall

- (a) be solid core or stile and rail type,
- (b) be not less than 45 mm thick, and
- (c) if of the stile and rail panel type, have a panel thickness of not less than 19 mm with a total panel area not more than half of the door area.

**9.6.6.3. Deadbolt Lock.** Except as permitted in Article 9.6.6.10., doors in Sentence 9.6.6.1.(1) shall be provided with a deadbolt lock with a cylinder having not less than 5 pins and a bolt throw not less than 25 mm, protected with a solid or hardened free-turning ring or bevelled cylinder housing.

**9.6.6.4. Double Doors.** Except as permitted in Article 9.6.6.10., an inactive leaf in double doors used in locations specified in Sentence 9.6.6.1.(1) shall be provided with heavy duty bolts top and bottom having an engagement of not less than 15 mm.

**9.6.6.5. Fastening of Hinges**

(1) Except as permitted in Article 9.6.6.10., hinges for doors in Sentence 9.6.6.1(1) shall be fastened to wood doors with wood screws not less than 25 mm long and to wood frames with wood screws such that at least two screws per hinge penetrate not less than 30 mm into solid wood.

(2) Except as permitted in Article 9.6.6.10., hinges for doors in Sentence 9.6.6.1.(1) shall be fastened to metal doors and metal frames with machine screws not smaller than No. 10 and not less than 10 mm long.

**9.6.6.6. Fastening of Strikeplates**

(1) Except as permitted in Article 9.6.6.10., strikeplates for doors described in Sentence 9.6.6.1.(1) shall be fastened to wood frames with wood screws that penetrate not less than 30 mm into solid wood.

(2) Except as permitted in Article 9.6.6.10., strikeplates for doors in Sentence 9.6.6.1.(1) shall be fastened to metal frames with machine screws not smaller than No. 10 and not less than 12 mm long.

**9.6.6.7. Outward Swinging Doors.** Except for storm doors, doors in Sentence 9.6.6.1.(1) which swing outward shall be provided with hinges or pins such that the doors cannot be removed when they are in the closed position.

**9.6.6.8. Door Viewer.** Main entrance doors to *dwelling units* shall be provided with a door viewer with a viewing angle of not less than 160°, unless transparent glazing is provided in the door or in a sidelight.

**9.6.6.9. Solid Blocking.** Solid blocking shall be provided on both sides at the lock height between jambs for doors in Sentence 9.6.6.1.(1) and the structural framing so that the jambs will resist spreading by force.

**9.6.6.10. Alternate Test Procedure.** Doors, frames and hardware which conform to a security level of at least grade 10 as described in the Annex to ASTM F476, "Standard Test Methods for Security of Swinging Door Assemblies", are not required to conform to Articles 9.6.6.2. to 9.6.6.8.

**Section 9.7 Windows and Skylights**

**9.7.1. General**

**9.7.1.1. Application.** Windows shall conform to the requirements of this Section.

**9.7.1.2. Minimum Window Areas**

(1) Except as required in Article 9.7.1.3., the minimum window glass area for rooms in *buildings of residential occupancy* or which are used for sleeping shall conform to Table 9.7.1.A.

**Table 9.7.1.A.**  
Forming Part of Article 9.7.1.2.

Minimum Glass Areas for Rooms of Residential Occupancy		
Location	Unobstructed Glass Area	
	With No Electric Lighting	With Electric Lighting
Laundry, basement recreation room, unfinished <i>basement</i>	4 per cent of area served	Windows not required
Water-closet room	0.37 m <sup>2</sup>	Windows not required
Kitchen, Kitchen space, Kitchen alcove	10 per cent of area served	Windows not required
Living rooms and dining rooms	10 per cent of area served	10 per cent of area served
Bedrooms and other finished rooms not mentioned above	5 per cent of area served (1)	5 per cent of area served (1)
Column 1	2	3

**Note to Table 9.7.1.A.:**

(1) See Article 9.7.1.3.

(2) The unobstructed glass area of a door or skylight is considered equivalent to that of a window.

**9.7.1.3. Bedroom Windows**

(1) Every floor level containing bedrooms in a *suite* shall be provided with

- (a) at least 1 outside window that can be opened from the inside without the use of tools, and
- (b) each such window shall provide an individual, unobstructed open portion having a minimum area of 0.35 m<sup>2</sup> with no dimension less than 380 mm.

(2) Except for *basement* areas, the window described in Sentence (1) shall have a maximum sill height of 1 m above the floor.

(3) When sliding windows are used, the minimum dimension described in Sentence (1) shall apply to the openable portion of the window.

**9.7.1.4. Window Opening into a Window-Well**

(1) Where a window required in Article 9.7.1.3. opens into a window-well, a clearance of at least 550 mm shall be provided in front of the window.

(2) Where the sash of a window referred to in Sentence (1) swings towards the window-well, the operation of the sash shall not reduce the clearance in a manner that would restrict escape in an emergency.

**9.7.1.5. Termites.** Where termites are known to exist and where windows or other openings at or below *grade* contain wood elements, the bottom of window wells or adjacent ground shall be at least 150 mm below the nearest wood unless the wood is pressure treated with a chemical toxic to termites in accordance with Article 9.3.2.9.

**9.7.1.6. Air Infiltration of Exterior Windows** Air infiltration of exterior windows shall not exceed .775 dm<sup>3</sup>/s for each metre of sash crack when tested at pressure differential of 75 Pa in conformance with ASTM E283, "Standard Method of Test Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors".

**9.7.2. Window Standards**

**9.7.2.1. Window Standard**

(1) Except as permitted in Sentence (2), windows shall conform at least to the requirements for window ratings A1, B1 and C1 in CAN3-A440, "Windows."

(2) The Standard referenced in Sentence (1) does not apply to *buildings* designed and constructed in accor-



lance with CSA Standard Z240.2.1 provided the windows in such *buildings* comply with CSA Standard Z240.8.1.

### 9.7.3. Glass

#### 9.7.3.1. Glass Standard

(1) Glass shall conform to

- (a) CAN2-12.1, "Glass, Safety, Tempered or Laminated",
- (b) CAN2-12.2, "Glass, Sheet, Flat, Clear",
- (c) CAN2-12.3, "Glass, Polished Plate or Float, Flat, Clear",
- (d) CAN2-12.4, "Glass, Heat-Absorbing",
- (e) CAN2-12.8, "Insulating Glass Units",
- (f) CAN2-12.10, "Glass, Light and Heat/Reflecting", or
- (g) CAN2-12.11, "Glass, Wired, Safety".

**9.7.3.2. Structural Design of Glass.** Glass in windows shall be designed in conformance with CAN/CGSB-2.20-M, "Structural Design of Glass for Buildings."

#### 9.7.4. Caulking and Glazing

**9.7.4.1. Sealing Compound.** Sealing compound used in the glazing of factory-sealed double-glazed units shall be compatible with the material used to edge seal the units.

**9.7.4.2. Caulking Compound.** Caulking shall be provided between window frames or trim and the exterior siding or masonry in conformance with Subsection 9.27.4.

#### 9.7.5. Windows in Public Areas

**9.7.5.1. Transparent Panels.** Except as provided in Article 9.7.5.3., transparent panels that could be mistaken as a *means of egress* shall be protected by barriers or railings.

**9.7.5.2. Windows in Exit Stairways.** Windows in *exit* stairways that extend to less than 1 070 mm above the landing shall be protected by barriers or railings located approximately 1 070 mm above such landings.

**9.7.5.3. Sliding Glass Partitions.** Sliding glass *partitions* which separate a *public corridor* from an adjacent *occupancy* and which are open during normal working hours need not conform to Articles 9.7.5.1. and Sentence 9.6.5.2.(3), except that such *partitions* shall be suitably marked to indicate their existence and position.

**9.7.5.4. Windows in Public Areas.** Windows in public areas that extend to less than 1 m from the floor and are located above the second *storey* in *buildings of residential occupancy* shall be protected by barriers or railings 1 m above the floor or the windows shall be non-openable and designed to withstand the lateral design loads for balcony *guards* in Part 4.

#### 9.7.6. Resistance to Forced Entry

**9.7.6.1. Conformance to Standard.** In *dwelling units*, windows any part of which is located within 2 m of adjacent ground level, shall conform to the requirements for resistance to forced entry as described in Clause 10.13 of CAN3-A440, "Windows."

#### 9.7.7. Skylights

**9.7.7.1. Plastic Skylights.** Plastic skylights shall conform to CAN/CGSB 63.14-M, "Plastic Skylights."

**9.7.7.2. Glass Skylights.** Factory-built glass skylights shall meet the performance requirements of CAN/CGSB 63.14-M.

### Section 9.8 Stairs, Ramps, Handrails and Guards

#### 9.8.1. Scope

**9.8.1.1. Application.** This Section applies to the design and construction of interior and exterior stairs, steps, ramps, railings and *guards*.

**9.8.1.2. Exit Stairs.** Where the stair forms part of an *exit*, the appropriate requirements in Sections 9.9 and 9.10 shall also apply.

**9.8.1.3. Escalators and Moving Walkways.** Escalators and moving walkways shall conform to the appropriate requirements in Part 3.

## **9.8.2. General**

### **9.8.2.1. Uniform Treads and Risers**

(1) Treads and risers shall have uniform rise and run in any one flight.

(2) A stairway that is not an *exit* may contain both a curved and straight portions of stairs in a single flight provided each curved portion conforms to Article 9.8.5.2. and the riser height is uniform throughout the flight.

**9.8.2.2. Minimum Number of Risers.** Except for interior stairs within a *dwelling unit*, at least 3 risers shall be provided for interior stairs.

**9.8.2.3. Interior Stairs Extending Through the Roof.** Interior stairways extending through the roof of a *building* shall be protected from ice and snow.

## **9.8.3. Stair Dimensions**

### **9.8.3.1. Rise and Run of Stairs**

(1) Except for stairs to areas used only as *service rooms*, interior stairs within *dwelling units* and exterior stairs serving *dwelling units* shall have a maximum rise of 200 mm, a minimum run of 210 mm and a minimum tread width of 235 mm.

(2) Except for stairs serving not more than 1 *dwelling unit*, interior stairs not contained within *dwelling units* and exterior stairs for *buildings* shall have a rise of not more than 200 mm and not less than 125 mm.

(3) Stairs referred to in Sentence (2) shall have a minimum run of not less than 230 mm, or more than 355 mm and a tread width of not less than 250 mm.

**9.8.3.2. Nosing or Backslope.** Where the run of any stair is less than 250 mm, a nosing of not less than 25 mm shall be provided beyond the face of the riser, or an equivalent back slope on the risers shall be provided.

### **9.8.3.3. Stair Width**

(1) *Exit* stairs and stairs used by the public shall have a width, measured between wall faces or *guards*, of not less than 900 mm.

(2) At least 1 stairway between each floor level in a *dwelling unit* shall have a minimum width between wall faces of not less than 860 mm.

**9.8.3.4. Head Room.** The head room measured vertically from a line drawn through the outer edges of the nosings shall be at least 1.95 m for stairs located in *dwelling units* and 2.05 m for all other stairs.

## **9.8.4. Landings**

**9.8.4.1. Dimensions of Landings.** Landings shall be at least as wide and as long as the width of stairs in which they occur, except that the length of landing for exterior stairs serving not more than 1 *dwelling unit* need not exceed 900 mm, and the length of landing for all other stairs in a straight run need not exceed 1 100 mm.

### **9.8.4.2. Required Landings**

(1) Where a door swings towards a stair, the full arc of its swing shall be over a landing.

(2) Except as provided in Sentence (3), a landing shall be provided at the top and bottom of each flight of interior stairs and where a doorway occurs in a stairway.

(3) Where a door at the top of a stair in a *dwelling unit* swings away from the stair, no landing is required between the doorway and the stairs.

(4) A landing shall be provided at the top of all exterior stairs, except that a landing may be omitted at a secondary entrance to a *building* containing a single *dwelling unit* provided the stair does not contain more than 3 risers.

**9.8.4.3. Height between Landings.** The vertical height between any landings shall not exceed 3.7 m.

**9.8.4.4. Height over Landings.** The clear height over landings shall be not less than 1.95 m in *dwelling units* and 2.05 m for other landings.

**9.8.5. Curved Stairs and Winders****9.8.5.1. Curved Stairs in Exits**

- (1) Except as provided in Sentence (2), tapered treads shall not be used in an *exit*.
- (2) Where a curved stair is used in an *exit*, it shall have
  - (a) a handrail on each side,
  - (b) treads with a minimum run of 240 mm exclusive of nosings,
  - (c) where treads are measured 230 mm away from the handrail at the narrow end of the tread
    - (i) a run of not more than 355 mm exclusive of nosings,
    - (ii) a rise between successive treads of not less 125 mm and not more than 200 mm,
    - (iii) a uniform run and rise in any one flight, and shall not alter significantly in run and rise in successive flights in any stair system,
    - (iv) where the run of any tread is less than 250 mm, a nosing of not less than 25 mm beyond the face of the riser or an equivalent back slope on the riser, and
  - (d) an inside radius which is not less than twice the stair width.

**9.8.5.2. Curved Stairs not in Exits.** Except as permitted in Article 9.8.5.3., a curved stair not required as an *exit* shall have an average run of not less than 200 mm and a minimum run of 150 mm and shall have risers conforming to Article 9.8.3.1.

**9.8.5.3. Winders**

- (1) Stairs within *dwelling units* may contain winders that converge to a centre point provided the winders turn through an angle of not more than 90° and individual treads turn through an angle of 30°.
- (2) Only one set of winders described in Sentence (1) shall be permitted between floor levels.

**9.8.6. Pedestrian Ramps**

**9.8.6.1. Ramps in a Barrier-Free Path of Travel.** Ramps in a *barrier-free* path of travel shall conform to the requirements in Section 3.7.

**9.8.6.2. Maximum Gradient**

- (1) Except as provided in Article 9.8.6.1., the maximum gradient for pedestrian ramps shall be not more than 1 in 10 for *residential occupancies*, 1 in 6 for *mercantile or industrial occupancies* and 1 in 8 for all other *occupancies*.
- (2) The maximum gradient for every exterior ramp shall be 1 in 10.

**9.8.6.3. Level Areas on Ramps**

- (1) Except as provided in Article 9.8.6.1., where a doorway or stairway opens onto the side of a ramp, there shall be a level area extending across the full width of the ramp and for a distance of not less than 300 mm on either side of the wall opening.
- (2) Except as provided in Article 9.8.6.1., where a doorway or stairway opens onto the end of a ramp, there shall be a level area extending across the full width of the ramp and along it for not less than 900 mm.

**9.8.7. Handrails****9.8.7.1. Required Handrails**

- (1) Except as permitted in Sentences (2) and (3), a handrail shall be provided on
  - (a) at least one side of stairs less than 1 100 mm in width,
  - (b) two sides of stairs 1 100 mm in width or greater, and
  - (c) two sides of a curved stair used as an *exit*.
- (2) Handrails are not required for stairs within *dwelling units* having not more than 2 risers, or for exterior stairs having not more than 3 risers and serving not more than one dwelling unit.

(3) Only one handrail is required on exterior stairs having more than 3 risers provided such stairs serve not more than one *dwelling unit*.

**9.8.7.2. Continuous Handrail.** Except for stairs serving only 1 *dwelling unit*, not less than one handrail shall be continuous throughout the length of the stairway, including landings, except where interrupted by doorways or newels at changes in direction.

**9.8.7.3. Termination of Handrails.** Except for stairs serving only 1 *dwelling unit*, handrails shall be terminated in a manner that will not obstruct pedestrian travel or create a hazard.

**9.8.7.4. Handrail Extension.** Except for stairs serving only 1 *dwelling unit*, at least one handrail at the sides of a stairway or ramp shall extend horizontally not less 300 mm beyond the top and bottom of the stairway or ramp.

**9.8.7.5. Height of Handrails.** Handrails on stairs and ramps shall be not less than 800 mm and not more than 920 mm in height, measured vertically from a line drawn through the outside edges of the stair nosing or from the surface of the ramp, except that handrails not meeting these requirements are permitted provided they are installed in addition to the required handrails.

**9.8.7.6. Handrail Clearance.** A clearance of at least 40 mm shall be provided between each handrail and the wall to which it is fastened.

**9.8.7.7. Obstructions.** Handrails shall be constructed with no obstruction on or above them to break a handhold except where the handrail is interrupted by newels at changes in direction.

**9.8.7.8. Handrail Projection.** Handrails and stair stringers shall not project more than 100 mm into the required width of stairway.

**9.8.7.9. Handrails for Ramps.** Where ramps are used in lieu of stairs, the handrail requirements for stairs in Articles 9.8.7.1. to 9.8.7.8. shall apply where the gradient exceeds 1 in 10.

**9.8.7.10. Attachment of Handrails.** Handrails installed on walls shall be attached to wood studs, wood blocking, steel studs or masonry at points spaced not more than 1.2 m apart.

## **9.8.8. Guards**

### **9.8.8.1. Required Guards**

(1) Every exterior landing, porch and every balcony, *mezzanine*, gallery, raised *walkway* and roof to which access is provided for other than for maintenance purposes, shall be protected by *guards* on all open sides where the difference in elevation between adjacent levels exceeds 600 mm.

(2) Every exterior stair with more than 6 risers shall be protected with *guards* on all open sides where the difference in elevation between the adjacent ground level and the stair exceeds 600 mm.

(3) When an interior stair has more than 2 risers, the sides of the stair and the landing or floor level around the stair well shall be enclosed by walls or be protected by *guards*, except that a stair to an unfinished *basement* in a *dwelling unit* may have 1 unprotected side.

### **9.8.8.2. Height of Guards**

(1) Except as provided in Sentences (2) to (5), all *guards*, including those for balconies, shall be at least 1 070 mm high.

(2) Guards for porches, decks, landings and balconies serving not more than one *dwelling unit* and which are not more than 1.8 m above the finished ground level are permitted to be a minimum of 900 mm high.

(3) Except as provided in Sentence (4), *guards* for stairs shall be not less than 900 mm high measured vertically from a line drawn through the outside edges of the stair nosings, and 1 070 mm in height at landings.

(4) *Guards* for stairs within *dwelling units* and stairs serving not more than one *dwelling unit* shall be not less than 800 mm measured vertically above a line drawn through the outside edges of stair nosings, and not less than 900 mm above landings.

(5) All required *guards* within *dwelling units* other than those described in Sentence (4) shall be not less than 900 mm high.

**9.8.8.3. Guards for Floors and Ramps in Garages.** Except for floors of garages referred to in Section 9.35, a continuous curb not less than 150 mm in height and a *guard* not less than 1 070 mm above the floor level shall be provided at every opening through a garage floor and around the perimeter of such floor and ramps where the exterior walls are omitted and where the top of the floor is 600 mm or more above an adjacent ground or floor level.



**9.8.8.4. Openings in Guards.** Openings through a *guard* on a balcony, an *exit* stair, or stairs, landings and the floor level around a stairwell in a *dwelling unit*, shall be of a size so as to prevent the passage of a spherical object having a diameter of 100 mm in *residential occupancies* and 200 mm in other *occupancies*, unless it can be shown that the location and size of such openings which exceed these limits do not represent a hazard.

**9.8.8.5. Design to Prevent Climbing.** *Guards* around exterior balconies of *buildings of residential occupancy* shall be designed so that no member, attachment or opening located between 100 mm and 900 mm above the balcony floor will facilitate climbing.

**9.8.8.6. Guards for Ramps.** *Guards* for ramps including vehicular ramps shall conform to the requirements for *guards* for stairs in Articles 9.8.8.2. and 9.8.8.4.

### **9.8.9. Construction**

#### **9.8.9.1. Exterior Concrete Stairs**

(1) Exterior concrete stairs with more than 2 risers and 2 treads shall be

- (a) supported on unit masonry or concrete walls or piers not less than 150 mm by 150 mm or shall be cantilevered from the main foundation wall, and
- (b) when cantilevered from the foundation wall, constructed and installed in conformance with Subsection 9.8.10.

(2) The depth below ground level for foundations for exterior steps shall conform to Subsection 9.12.

**9.8.9.2. Exterior Wood Steps.** Exterior wood steps shall not be in direct contact with the ground unless treated to prevent decay.

#### **9.8.9.3. Wooden Stair Stringers**

(1) Wooden stair stringers shall

- (a) have a minimum effective depth of 90 mm and an overall depth of at least 235 mm,
- (b) be supported and secured top and bottom,
- (c) have an actual thickness of
  - (i) not less than 25 mm if supported along their length, and
  - (ii) 38 mm actual thickness if unsupported along their length.
- (d) Except as permitted in Sentence (2) and except where stringers and treads are designed for wider spacings in accordance with Part 4, wood stair stringers shall be spaced
  - (i) not more than 900 mm o.c. for stairs serving not more than one *dwelling unit*, and
  - (ii) not more than 600 mm o.c. in other stairs.

(2) For stairs serving not more than one *dwelling unit* where risers support the front portion of the tread, the space between stringers shall be not more than 1200 mm.

**9.8.9.4. Thickness of Treads.** Lumber or plywood treads for stairs within *dwelling units* shall be at least 25 mm actual thickness, except that if open risers are used, and the distance between stringers exceeds 750 mm, the treads shall be at least 38 mm actual thickness.

#### **9.8.9.5. Finish for Treads and Landings**

(1) The finish for treads and landings of interior stairs in *dwelling units*, other than stairs to unfinished *basements*, shall consist of hardwood, vertical grain softwood, resilient flooring or other material providing equivalent performance.

(2) Treads and landings of interior and exterior stairs and ramps, other than those within *dwelling units*, shall have a slip-resistant finish or be provided with slip-resistant strips which extend not more than 1 mm above the surface.

#### **9.8.10. Cantilevered Precast Concrete Steps**

**9.8.10.1. Design.** Exterior concrete steps and their anchorage system that are cantilevered from a foundation wall shall be designed and installed to support the loads to which they may be subjected.

**9.8.10.2. Anchorage.** Cantilevered concrete steps in Article 9.8.10.1. shall be anchored to concrete foundation walls at least 200 mm thick.

**9.8.10.3. Prevention of Damage Due to Frost.** Suitable precautions shall be taken during backfilling and grading operations to ensure that subsequent freezing of the soil will not cause uplift forces on the underside of cantilevered concrete steps to the extent that the steps or the walls to which they are attached will be damaged.

## Section 9.9 Means of Egress

### 9.9.1. Scope

**9.9.1.1. Application.** Stairways, handrails and *guards* in a *means of egress* shall conform to the requirements in Section 9.8 as well as to the requirements in this Section.

**9.9.1.2. Fire Protection.** *Flame-spread ratings*, *fire-resistance ratings* and *fire-protection ratings* shall conform to Section 9.10.

### 9.9.2. General

#### 9.9.2.1. Egress from Roof Area, Podiums, Terraces, Platforms and Contained Open Spaces

(1) An *access to exit* shall be provided from every roof intended for *occupancy* and from every podium, terrace, platform or contained open space.

(2) Where a roof is intended for an *occupant load* of more than 60 persons, at least 2 separate *means of egress* shall be provided from the roof to stairs designed in conformance with the requirements for *exit* stairs and located remote from each other.

(3) Egress requirements from a podium, terrace, platform or contained open space shall conform to the appropriate requirements for rooms, or *suites* in Article 9.9.7.3.

**9.9.2.2. Types of Exits.** *Exits* may consist of doorways, passageways, ramps, stairways and *horizontal exits*.

#### 9.9.2.3. Fire Escapes

(1) Fire escapes may be used as *exits* on existing *buildings* provided they are designed and installed in conformance with Part 3.

(2) Fire escapes shall not be installed on any new *building*.

#### 9.9.2.4. Elevators, Slide Escapes and Windows

(1) Except as permitted in Sentence (2) elevators, slide escapes or windows shall not be considered as being part of a required *means of egress*.

(2) Except for *floor areas of mercantile occupancy*, casement windows not less than 1 060 mm high, 560 mm wide, with a sill height not more than 900 mm above the inside floor, may be considered part of a required *means of egress* to provide access to fire escapes, when fire escapes are permitted.

**9.9.2.5. Purpose of Exits.** An *exit* shall be designed for no purpose other than for exiting except that an *exit* may also serve as an access to a *floor area*.

**9.9.2.6. Ancillary Rooms.** Ancillary rooms such as storage rooms, washrooms, toilet rooms, laundry rooms and *service rooms* shall not open directly into an *exit*.

#### 9.9.2.7. Barrier-Free Path of Travel

(1) Except as provided in Sentence (3), every *building* shall be designed to provide for a *barrier-free* path of travel in conformance with Section 3.7.

(2) Where the *barrier-free* path of travel required in Sentence (1) is provided to any *storey* above the *first story*, the requirements in Article 3.3.1.7. shall apply.

(3) The *barrier-free* path of travel described in Sentence (1) need not be provided for houses including semi-detached houses, duplexes, triplexes, town houses, row houses and *boarding, or rooming houses* with fewer than 8 boarders or roomers.

**9.9.2.8. Horizontal Exits.** Where a *horizontal exit* is used, it shall conform to Part 3.

**9.9.2.9. Front Edge of Stair Treads.** Except for curved stairs the front edge of stair treads in *exits* and *access to exits* shall be at right angles to the direction of *exit* travel.

**9.9.2.10. Exterior Exit Stairs that Serve a Building Containing a Hotel.** Treads and landings of exterior *exit* stairs that serve a *building* containing a *hotel* shall be designed to be free from ice and snow accumulation.

**9.9.3. Dimensions of Means of Egress**

**9.9.3.1. Application.** This Subsection applies to every *means of egress* except *exits* that serve not more than 1 *dwelling unit* and *access to exits* within *dwelling units*.

**9.9.3.2. Exit Width.** Except for doors and corridors, the width of every *exit* facility shall be not less than 900 mm.

**9.9.3.3. Width of Corridors.** The width of every *public corridor*, corridor used by the public, and *exit* corridor shall be not less than 1 100 mm.

**9.9.3.4. Headroom Clearance**

(1) Except for stairways, doorways and *storage garages* the minimum headroom clearance in *exits* and *access to exits* shall be 2.1 m.

(2) The clear height of every *storey* in a *storage garage* shall be not less than 2 m.

**9.9.4. Fire Protection of Exits**

**9.9.4.1. Application.** Except as provided in Article 9.9.4.4., this Subsection applies to the fire protection of all *exits* except *exits* serving not more than one *dwelling unit*.

**9.9.4.2. Fire Separation for Exits**

(1) Except as provided in Sentence (5) and Article 9.9.8.5., every *exit* other than an *exit* doorway, shall be separated from each adjacent *floor area* or from another *exit* by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly above the *floor area*.

(2) Where there is no floor assembly above, the *fire resistance rating* required in Sentence (1) shall not be less than that required by Subsection 9.10.8. for the floor assembly below, but in no case shall the *fire-resistance rating* be less than 45 min.

(3) A *fire separation* common to 2 *exits* shall be smoke-tight and not be pierced by doorways, duct work, piping or any other opening that may affect the continuity of the separation.

(4) A *fire separation* that separates an *exit* from the remainder of the *building* shall have no openings except those for electrical wiring, *noncombustible* conduit and *noncombustible* piping that serve only the *exit* and for standpipes, sprinkler piping, *exit* doorways and wired glass and glass block permitted in Article 9.9.4.3.

(5) The requirements in Sentence (1) do not apply to an exterior *exit* passageway provided the passageway has at least 50 per cent of its exterior sides open to the outdoors and is served by an *exit* stair at each end of the passageway.

**9.9.4.3. Wired Glass or Glass Block.** The area of wired glass in a door or wired glass or glass block in a side light between an *exit* enclosure and the remainder of the *building* shall not exceed 0.8 m<sup>2</sup>, except that greater glass areas are permitted when the door or sidelight is located in an enclosed vestibule or corridor constructed as a *fire separation* having at least a 45 min *fire-resistance rating*.

**9.9.4.4. Openings Near Unenclosed Exit Stairs and Ramps.** Where an unenclosed exterior *exit* stair or ramp provides the only *means of egress* from a *suite*, and is exposed to fire from openings in the exterior walls of another fire compartment, the openings in the exterior walls of the *building* shall be protected with wired glass in fixed steel frames or glass block conforming to Articles 9.10.13.5. and 9.10.13.7. when the openings in the exterior walls of the *building* are within 3 m horizontally and less than 10 m below or less than 5 m above the *exit* stair or ramp.

**9.9.4.5. Openings in Exterior Walls of Exits.** Openings in the exterior wall of an *exit* shall be protected with wired glass or glass block installed in accordance with Articles 9.10.13.5. and 9.10.13.7., where openings may be exposed to the hazard of a fire in another *fire compartment* of the same *building*.

**9.9.4.6. Openings Near Exit Doors.** Where an exterior *exit* door in one *fire compartment* is within 3 m horizontally of openings in another *fire compartment*, and if the exterior walls containing such openings intersect at an exterior angle of less than 135°, the openings shall be protected with wired glass in fixed steel frames or glass block conforming to Articles 9.10.13.5. and 9.10.13.7.

**9.9.4.7. Stairways in 2 Storey, Group D or E Buildings**

(1) Notwithstanding the requirements of Sentences 9.9.4.2.(1), 9.9.8.2.(1) and 9.10.9.5., if a *suite* of Group D or E *occupancy* is located partly on the *first storey* and partly on the second *storey*, stairways serving the second *storey* need not be constructed as *exit* stairs provided

(a) the *building* is not greater than 2 *storeys* in *building height*,



- (b) the *suite* is separated from other *occupancies* by at least a 45 min *fire separation*,
- (c) the area occupied by the *suite* is not greater than 75 m<sup>2</sup> per *storey*,
- (d) the maximum travel distance from any point in the *suite* to an exterior *exit* is not greater than 25 m,
- (e) the floor assemblies have at least a 45 min *fire resistance rating* or are of *noncombustible construction*,
- (f) the *basement* and *first storey* are separated by at least a 45 min *fire separation*, and
- (g) a *smoke* alarm is installed on each floor of the *suite*, including the *basement*, in accordance with Subsection 9.10.18.

(2) The requirements of Article 9.10.12.1. for separation of exterior openings, do not apply to an occupancy conforming with Sentence (1).

#### 9.9.5. Obstructions and Hazards in Means of Egress

**9.9.5.1. Application.** This Subsection applies to obstructions and hazards in every *means of egress* except those within a *dwelling unit* or serving not more than 1 *dwelling unit*.

**9.9.5.2. Occupancies in Public Corridors.** Where a *public corridor* or a corridor used by the public contains an *occupancy*, such *occupancy* shall not reduce the unobstructed width of the corridor to less than the required width of the corridor.

#### 9.9.5.3. Obstructions in Public Corridors

(1) Except as permitted in Sentence (2), obstructions located within 1 980 mm of the floor shall not project horizontally more than 100 mm into *exit* passageways, corridors used by the public or *public corridors* in a manner that would create a hazard for visually impaired persons travelling adjacent to walls.

(2) The horizontal projection of an obstruction in Sentence (1) is permitted to exceed 100 mm where the obstruction extends to less than 680 mm above the floor.

**9.9.5.4. Obstructions in Exits.** Except as permitted in Subsection 9.9.6. and Article 9.8.7.8., no fixture, turnstile or construction shall project within the required width of an *exit*.

**9.9.5.5. Mercantile Occupancies.** In any *mercantile occupancy*, no obstructions such as posts or turnstiles shall be placed so as to restrict the width of a normal *means of egress* from a *floor area* or part of a *floor area* to less than 750 mm unless an alternate *means of egress* is provided adjacent to and is plainly visible from the restricted egress.

**9.9.5.6. Mirrors or Draperies.** No mirror shall be installed in or adjacent to any *exit* so as to confuse the direction of *exit*, and no mirror or other covering shall be installed on or over *exit* doors.

**9.9.5.7. Fuel-Fired Appliances.** Fuel-fired *appliances* shall not be installed in an *exit* or corridor serving as an *access to exit*.

**9.9.5.8. Service Rooms.** *Service rooms* containing equipment subject to possible explosion, such as *boilers* designed to operate at a pressure in excess of 100 kPa, and certain types of refrigerating and transformer equipment, shall not be located under required *exits*.

#### 9.9.6. Doors in a Means of Egress

**9.9.6.1. Application.** This Subsection applies to all doors in a *means of egress* except doors within *dwelling units* and exterior doors serving not more than 1 *dwelling unit* unless otherwise stated herein.

#### 9.9.6.2. Obstruction by Doors

(1) *Exit* doors shall not decrease the required *exit* width by more than 100 mm in *exit* corridors, and not more than 50 mm for other *exit* facilities.

(2) Doors in their swing shall not reduce the width of the path of travel to less than

- (a) the required *exit* width in *exit* corridors and passageways, and
- (b) 750 mm, on *exit* stairs and landings.

**9.9.6.3. Headroom Obstructions.** No door closer or other device shall be installed in an *exit* in such a manner as to reduce the head room clearance to less than 1 980 mm.



**9.9.6.4. Door Sizes**

(1) Every *exit* door or door that opens into or is located within a *public corridor* or other facility that provides *access to exit* from a *suite* shall

- (a) be not less than 2 030 mm high,
- (b) be not less than 810 mm wide where there is only one door leaf, and
- (c) shall have no single leaf less than 610 mm wide in any multiple leaf door.

**9.9.6.5. Direction of Door Swing**

(1) Except as provided in Sentence 3.3.1.11.(1), every door that opens onto a corridor or other facility that provides *access to exit* from a room or *suite* having an *occupant load* of more than 60 persons, and every door that is located within a corridor that is required to be separated from the remainder of the *floor area* by a *fire separation* shall swing on a vertical axis in the direction of *exit* travel and shall not open onto a step.

(2) Except as permitted in Sentences (3) and (4) and in Sentence 3.4.6.13.(1), every required *exit* door shall open in the direction of *exit* travel and shall swing on its vertical axis.

(3) An *exit* door serving not more than one *dwelling unit* is permitted to swing inward.

(4) *Exit* doors serving a *storage garage* serving not more than one *dwelling unit*, or doors serving other accessory *buildings* where there is no danger to life safety, need not conform to Sentence (1).

**9.9.6.6. Nearness of Doors to Stairs**

(1) Except as provided in Sentence (2), the distance between a stair riser and the leading edge of a door during its swing shall be not less than 300 mm.

(2) Where there is a danger of blockage from ice or snow, an *exit* door may open onto not more than 1 step provided the riser of such step does not exceed 150 mm.

**9.9.6.7. Revolving Doors.** Revolving doors used as *exits* shall conform to Article 3.4.6.14.

**9.9.6.8. Door Opening Mechanism.** *Exit* doors and doors to *suites*, including exterior doors to *dwelling units*, shall be openable from the inside without requiring keys, special devices or specialized knowledge of the door opening mechanism.

**9.9.6.9. Automatic Locking Prohibited.** Except for hotels and motels, a door opening onto a *public corridor* which provides *access to exit* from *suites* shall be designed not to lock automatically when such doors are equipped with automatic self-closing devices.

**9.9.6.10. Effort Required to Open.** Every *exit* door shall be designed and installed so that when the latch is released the door will open in the direction of *exit* travel under a force of not more than 90 N applied at the knob or other latch releasing device.

**9.9.6.11. Latching Devices in a Hotel**

(1) In a *building* containing a *hotel*, there shall be installed on every egress door that is equipped with a latching device and leads from any room or *floor area* with an *occupant load* of more than 60 persons, a device consisting of a panel or bar that

- (a) extends across at least 2/3 the width of the door,
- (b) is placed at a height suitable for the service required, and
- (c) is designed to release the latch and allow the door to swing open when a force of 90 N or less is applied to the device in the direction of egress.

**9.9.6.12. Arabic Numerals**

(1) Arabic numerals indicating the assigned floor number shall

- (a) be mounted permanently on the stair side and the floor side of a door to an *exit* stair shaft that serves a *building* containing a *hotel*,
- (b) be at least 60 mm high, raised approximately 0.7 mm above the surface on which they are applied,
- (c) be located 1 500 mm above the finished floor and not more than 300 mm from the door, and
- (d) be contrasting in colour with the surface on which they are applied.

**9.9.7. Access to Exits**

**9.9.7.1. Means of Egress from Suites.** Except as permitted in Articles 9.9.7.2. and 9.9.9.3., each *suite* in a *floor area* occupied by more than one *suite* shall have an exterior *exit* doorway or a doorway to a *public corridor* or to an exterior passageway, and from the point where such doorway enters the *public corridor* or exterior passageway, it shall be possible to go in opposite directions to each of 2 separate *exits*.

**9.9.7.2. Dead End Corridors**

- (1) A dead-end *public corridor* is permitted in an *occupancy* shown in Table 9.9.7.A. where
- (a) a dead-end corridor
    - (i) does not exceed the distance of travel measured from the most remote point of the dead-end to a point where it is possible to go in opposite directions to each of two separate *exits*, and
    - (ii) is provided with doors equipped with self-closing devices, or
  - (b) there is a second and separate egress doorway from each room or *suite* not leading into the dead-end corridor.

**Table 9.9.7.A.**  
Forming Part of Sentence 9.9.7.2.(1)

Occupancy	Maximum Length of Dead-End Public Corridor, m	Maximum Occupant Load or Suites Served by Dead-End Public Corridor
Group C	6	4 suites
Group D	9	30
Group E	9	30
Group F	9	30
Column 1	2	3

(2) Dead-end *public corridors* in *residential occupancies* and *business and personal services occupancies* shall contain only *suite* door openings arranged so that not more than 2 such doors have to be passed to reach the nearest *exit*. The area of wired glass in such doors shall not exceed 645 cm<sup>2</sup>.

**9.9.7.3. Number and Spacing of Egress Doors**

- (1) Except for *dwelling units*, at least 2 egress doors shall be provided where
- (a) the area of a room or *suite* exceeds 200 m<sup>2</sup> in a Group D, E, F2 and F3 *occupancy*, or 150 m<sup>2</sup> in a Group C *occupancy*, or
  - (b) the distance measured from any point within a room or *suite* to the nearest egress door exceeds 25 m.

(2) Doors in Sentence (1) shall be spaced so that in the event one door is made inaccessible by a fire within such a room or *suite*, the other door will provide safe egress.

**9.9.7.4. Independent Access to Exit.** Required *access to exit* from *suites* shall not be through any other *dwelling unit*, *service room* or other *occupancy*.

**9.9.7.5. Travel Distance within Rooms and Suites.** Except for *dwelling units*, the travel distance from any point within the room or *suite* to the nearest egress door shall not exceed the maximum travel distance in Article 9.9.8.2.

**9.9.8. Exits From Floor Areas****9.9.8.1. Measurement of Travel Distance**

(1) Except as provided in Sentences (2) and (3), for the purposes of this Subsection, travel distance means the distance from any point in the *floor area* to an *exit* measured along the path of *exit* travel.

(2) Where a room or *suite* is separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* of at least 45 min, or in a *sprinklered building*, by a *fire separation* which is not required to have a *fire-resistance rating*, the travel distance may be measured from an egress door of the room or *suite* to the nearest *exit*.

(3) Where a *public corridor* is at least 9 m wide and conforms to Clause 3.4.2.5.(1)(d), the travel distance may be determined in accordance with that Clause.

**9.9.8.2. Number of Required Exits**

(1) Except as provided in Sentences (2) and (3) and Subsection 9.9.9., not less than 2 *exits* shall be provided from every *floor area*, spaced so that the travel distance to the nearest *exit* is not more than

- (a) 40 m in the case of *business and personal services occupancies*,
- (b) 45 m for all *occupancies* where the *floor area* is *sprinklered*, and
- (c) 30 m for all other *occupancies*.

(2) Except as provided in Subsection 9.9.9., a single *exit* is permitted from each *storey* in *buildings* of 1 and 2 *storeys* in *building height* provided the *floor area* and travel distance requirements conform to those required in Article 9.9.7.3. and the total *occupant load* served by an *exit* facility does not exceed 60 persons.

(3) In *boarding, lodging or rooming houses*

- (a) where sleeping accommodation is provided for not more than 8 persons, a single *exit* is permitted from each *floor area*, or
- (b) where sleeping accommodation is not provided in the *basement*, a single *exit* is permitted from the *basement floor area*.

**9.9.8.3. Contribution of Each Exit.** Where more than 1 *exit* is required from a *floor area*, each *exit* shall be considered as contributing not more than half the required *exit* width.

**9.9.8.4. Location of Exits.** Where more than 1 *exit* is required from a *floor area*, not less than 2 *exits* shall be independent of each other and be placed remote from each other along the path of travel between them.

**9.9.8.5. Exiting through a Lobby**

(1) Not more than one *exit* from a *floor area* may lead through a lobby.

(2) The floor of the lobby referred to in Sentence (1) shall be not more than 4.5 m above *grade*, and the path of travel through the lobby to the outdoors shall not exceed 15 m.

(3) The lobby referred to in Sentence (1) shall conform in all respects with the requirements for *exits*, except that rooms other than *service rooms*, storage rooms and rooms of *residential* or *industrial occupancy* may open directly onto such lobby.

(4) An *exit* which serves a *building* containing a *hotel* may lead through a lobby referred to in Sentence (1) if the lobby is not located within an *interconnected floor space*.

(5) An *exit* which does not serve a *building* containing a *hotel* may lead through a lobby referred to in Sentence (1) if the lobby is not located within an *interconnected floor space* other than as described in Sentence 3.2.8.1.(8).

(6) Where the lobby referred to in Sentence (1) and adjacent *occupancies* that are permitted to open into the lobby are *sprinklered*, the *fire separation* between such occupancies and the lobby need not have a *fire-resistance rating*.

**9.9.8.6. Exits for Mezzanines.** A *mezzanine* shall be provided with *exits* on the same basis as required for a *floor area* where a *mezzanine* is considered to be a *storey* in Subsection 9.10.4. or is of a size required to have more than one *exit*.

**9.9.9. Egress from Dwelling Units****9.9.9.1. Travel Limit to Exits or Egress Doors**

(1) Except as provided in Sentences (2) and (3), every *dwelling unit* containing more than one *storey* shall have a sufficient number of *exits* or egress doors so that it shall not be necessary to travel up or down more than 1 *storey* to reach a level served by

- (a) an egress door to a *public corridor*, enclosed *exit* stair or exterior passageway, or
- (b) an *exit* doorway not more than 1.5 m above adjacent ground level.

(2) Where there is no *dwelling unit* above or below another *dwelling unit*, the travel limit from a floor level in a *dwelling unit* to an *exit* or egress door may exceed 1 *storey* where that floor level is served by an openable window providing an unobstructed opening of not less than 1 m in height and 0.55 m in width, located so that the sill is not more than 1 m above the floor and not more than 7 m above adjacent ground level.

(3) The travel limit from a floor level in a *dwelling unit* to an *exit* or egress door may exceed 1 *storey* where that floor level has direct access to a balcony.

**9.9.9.2. Two Separate Exits.** Except as provided in Article 9.9.7.2., where an egress door from a *dwelling unit* opens onto a *public corridor* or exterior passageway it shall be possible from the location where the egress door opens onto the corridor or exterior passageway to go in opposite directions to 2 separate *exits* unless the *dwelling unit* has a second and separate *means of egress*.

**9.9.9.3. Shared Egress Facilities**

(1) A *dwelling unit* shall be provided with a second and separate *means of egress* where an egress door from the *dwelling unit* opens onto

- (a) an *exit* stairway serving more than 1 *suite*,
- (b) a *public corridor* serving more than one *suite* served by a single *exit* stairway,
- (c) an exterior passageway serving more than one *suite* and served by a single *exit* stairway, or
- (d) a balcony serving more than one *suite* and served by a single *exit* stairway.

**9.9.10. Exit Signs**

**9.9.10.1. Application.** This Subsection applies to all *exits* except those serving not more than 1 *dwelling unit*.

**9.9.10.2. Visibility of Exits.** *Exits* shall be located so as to be clearly visible or their locations shall be clearly indicated.

**9.9.10.3. Required Exit Signs**

(1) Except as required in Sentence (2) every *exit* door other than a main entrance to a room or *building* shall have an *exit* sign placed over or adjacent to it when the *exit* serves

- (a) a three *storey building*,
- (b) a *building* with an *occupant load* greater than 150, or
- (c) a room or *floor area* that has a fire escape as part of a required *means of egress*.

(2) In a *building* containing a *hotel*, *exit* signs shall be installed to indicate

- (a) *exit* stairways and fire escapes, and
- (b) *exits* from *exit* stairway enclosures and corridors to the exterior.

**9.9.10.4. Exit Direction Signs.** *Exit* direction signs shall be placed in corridors and passageways where necessary to indicate the direction of *exit* travel.

**9.9.10.5. Visibility of Exit Signs.** *Exit* signs shall be installed so as to be visible from the *exit* approach.

**9.9.10.6. Lettering**

(1) *Exit* signs shall have the word EXIT or the words EXIT/SORTIE in red letters on a contrasting background or a red background with contrasting letters.

(2) Lettering shall be made with at least 19 mm wide strokes and be at least 150 mm high when the signs are externally lighted, and at least 114 mm high if the sign is internally lighted.

(3) Where an *exit* sign having the word EXIT is installed in conformance with Sentence (1), an additional sign having the word SORTIE may be installed.

**9.9.10.7. Illumination.** Where illumination of *exit* signs required in Article 9.9.10.3. is provided by an electrical circuit, that circuit shall serve no equipment other than emergency equipment.

**9.9.10.8. Exits Continuing to a Basement.** In *buildings* 3-storeys in *building height* any part of an *exit* ramp or stair that continues down to a *basement* past an exterior *exit* door shall be clearly marked to indicate that it does not lead to an *exit*, where the portion below ground level may be mistaken as the direction of *exit* travel.

**9.9.11. Lighting**

**9.9.11.1. Application.** This Subsection applies to the lighting of all *exits* except those serving not more than 1 *dwelling unit*.

**9.9.11.2. Required Lighting in Egress Facilities.** Every *exit*, *public corridor* or corridor providing access to *exit*



for the public shall be equipped to provide illumination to an average level of not less than 50 lx at floor or tread level and at all points such as angles and intersections at changes of level where there are stairs or ramps.

### 9.9.11.3. Emergency Lighting

(1) Emergency lighting shall be provided in

- (a) *exits*,
- (b) principal routes providing *access to exit* in an open floor area,
- (c) corridors used by the public,
- (d) underground *walkways*, and
- (e) *public corridors*.

(2) Emergency lighting required in Article 9.9.11.3. shall be provided from a source of energy separate from the electrical supply for the *building*.

(3) Lighting required in Sentence (1) shall be designed to be automatically actuated when the electric lighting in the affected area is interrupted.

(4) Illumination from lighting required in Sentence (1) shall be not less than 10 lx for a period of at least 30 min.

(5) Where incandescent lighting is provided, lighting equal to 1 W/m<sup>2</sup> of floor area shall be considered to meet the requirement in Sentence (4).

(6) Where self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141, "Unit Equipment for Emergency Lighting."

## Section 9.10 Fire Protection

### 9.10.1. General

**9.10.1.1. Support of Noncombustible Construction.** An assembly required to be of *noncombustible construction* shall be supported by *noncombustible construction*.

**9.10.1.2. Sloped Roofs.** For the purposes of this Section, roofs with slopes of 60° or more to the horizontal and which are adjacent to a room or space intended for *occupancy* shall be considered as a wall.

**9.10.1.3. Reserved.**

**9.10.1.4. Commercial Cooking Equipment.** In kitchens containing commercial cooking equipment used in processes producing grease-laden vapours, the equipment shall be designed and installed in conformance with Part 6.

**9.10.1.5. Other Items Under Part 3 Jurisdiction.** Tents, *air-supported structures*, transformer vaults, *walkways*, elevators and escalators shall conform to Part 3.

**9.10.1.6. Openings through Floors.** Openings through floors that are not protected by shafts or *closures* shall be protected in conformance with Subsection 3.2.8.

**9.10.1.7. Assembly Occupancy.** Where rooms or spaces are intended for an *assembly occupancy*, such rooms or spaces shall conform to Part 3.

**9.10.1.8. Hazardous or Explosive Material.** Where rooms or spaces are intended for the storage, manufacture or use of hazardous or explosive material, such rooms or spaces shall conform to Part 3.

**9.10.1.9. Appliances Installed on a Roof.** Where fuel-fired *appliances* are installed on a roof, such *appliances* shall be installed in conformance with Part 6.

**9.10.1.10. Sprinkler, Standpipe and Hose Systems.** Where sprinkler, standpipe and hose systems are installed, they shall be installed in conformance with Part 3.

### 9.10.1.11. Chutes and Shafts

(1) Chutes and shafts shall conform to Subsection 3.5.3. except where they are entirely contained within a *dwelling unit*.

(2) If chutes and shafts located in a *building* containing a *hotel* are connected to an intake or discharge room, the room shall be separated by a *fire separation* having a *fire-resistance rating* of at least 45 min.

**9.10.1.12. Large or Multi-Storey Basements.** *Basements* containing more than 1 *storey* or exceeding 600 m<sup>2</sup> in area shall conform to the requirements contained in Part 3.

### 9.10.2. Occupancy Classification

**9.10.2.1. Occupancy Classification.** Except as provided in Article 9.10.2.2., every *building* or part thereof shall be classified according to its *major occupancy* as belonging to one of the groups or divisions described in Table 9.10.2.A.

**Table 9.10.2.A.**  
Forming Part of Article 9.10.2.1.

Occupancy Classifications		
Group	Division	Description of <i>Major Occupancies</i>
C	—	<i>Residential occupancy</i>
D	—	<i>Business and personal services occupancies</i>
E	—	<i>Mercantile occupancies</i>
F	2	<i>Medium hazard industrial occupancies</i>
F	3	<i>Low hazard industrial occupancies</i> (Does not include <i>storage garages</i> serving individual <i>dwelling units</i> )
Column 1	2	3

**9.10.2.2. Custodial and Convalescent Homes.** Children's custodial homes and convalescent homes for ambulatory occupants living as a single housekeeping unit in a *dwelling unit* with sleeping accommodation for not more than 10 persons may be classified as *residential occupancies* (Group C).

**9.10.2.3. Major Occupancies above Other Major Occupancies.** Except as permitted in Articles 9.10.2.4., in any *building* containing more than 1 *major occupancy* in which one *major occupancy* is located entirely above another, the requirements of Article 9.10.8.1. for each portion of the *building* containing a *major occupancy* shall be applied to that portion as if the entire *building* was of that *major occupancy*.

**9.10.2.4. Buildings Containing More Than One Major Occupancy.** In a *building* containing more than 1 *major occupancy*, where the aggregate area of all *major occupancies* in a particular group or division does not exceed 10 per cent of the floor area on the *storey* on which they are located, they need not be considered as *major occupancies* for the purposes of Articles 9.10.8.1. and 9.10.2.3. provided they are not classified as Group F, Division 2 *occupancies*.

### 9.10.3. Ratings

**9.10.3.1. Fire-Resistance and Fire-Protection Ratings.** Where a *fire-resistance rating* or a *fire-protection rating* is required in this Section for an element of a *building*, such rating shall be determined in conformance with the test methods described in Part 3, or in accordance with Chapter 2 of the Supplement to the NBC 1990, or with Tables 9.10.3.A. and 9.10.3.B.

**Table 9.10.3.A.**  
Forming Part of Articles 9.10.3.1., 9.11.2.1. and 9.11.2.2.

Fire and Sound Resistance of Walls					
Type of Wall	No.	Description	Finish on Each Side (1)	Fire-Resistance Rating,	Typical Sound Transmission Class (1)
Hollow concrete	1	140-mm Block	None (3)	1 h	48
	2	Same as 1	B	2 h	51
Column 1	2	3	4	5	6

Table 9.10.3.A.—(Cont'd)  
Forming Part of Articles 9.10.3.1., 9.11.2.1. and 9.11.2.2.

Fire and Sound Resistance of Walls					
Type of Wall	No.	Description	Finish on Each Side (1)	Fire-Resistance Rating,	Typical Sound Transmission Class (1)
block (normal weight aggregate)	3	Same as 1, with both surfaces fastened directly, or both on metal resilient channels with absorptive material (4)	A	2 h	47
	4	Same as 1, with metal resilient channels and absorptive material on one side (4)	A	1.75 h	51
	5	Same as 1, with 38-mm × 38-mm wood strapping and absorptive material on both sides (4)	A	2 h	57
	6	190-mm block	None (3)	1.5 h	50
	7	190-mm block	B	2 h	50
	8	Same as 6, with both surfaces fastened directly, or both on metal resilient channels with absorptive material. (4)	A	2.5 h	49
	9	Same as 6, with metal resilient channels and absorptive material on one side (4)	A	2.5 h	53
	10	Same as 6, with 38-mm × 38-mm wood strapping on at least one side	A (6)	2.5 h	53
	11	Same as 6, with 38-mm × 38-mm wood strapping and absorptive material on both sides (4)	A (6)	2.5 h	59
	12	Same as 6, with 50-mm metal Z-bars (or 38-mm × 38-mm wood strapping plus metal resilient channels) and absorptive material on both sides (4)	A	2.5 h	64
	13	Same as 6, with studs (65-mm steel or 64-mm wood) and absorptive material on both sides (4)	A (6)	2.5 h	70
	14	Same as 6, with metal resilient channels and absorptive material on one side	D	2.5 h	55
Concrete	15	150 mm	None (3)	3 h	55
	16	200 mm	None (3)	4 h	58
Column 1	2	3	4	5	6

**Table 9.10.3.A.—(Cont'd)**  
Forming Part of Articles 9.10.3.1., 9.11.2.1. and 9.11.2.2.

Fire and Sound Resistance of Walls					
Type of Wall	No.	Description	Finish on Each Side (1)	Fire-Resistance Rating,	Typical Sound Transmission Class (1)
Interior wood stud, single row	17	38-mm × 89-mm studs 400-mm o.c.	D	1 h	34
	18	38-mm × 89-mm studs 400-mm o.c., with absorptive material (5)	A (6)	45 min	36
	19	Same as 18 (4)	C	1 h	36
	20	Same as 18, with resilient metal channels on at least one side (5)	A (6)	45 min	48
	21	Same as 18, with resilient metal channels on at least one side (4)	C	1 h	48
	22	Same as 18, with resilient metal channels on at least one side (4)	D	1 h	54
Interior stud, 2 rows staggered on 38-mm × 140-mm plate	23	Two rows 38-mm × 89-mm studs each set 400-mm or 600-mm o.c. staggered on common 38-mm × 140-mm plate, with absorptive material on both sides (5)	A (6)	45 min	50
	24	Same as 23, but with absorptive material on one side (4)	C	1 h	51
	25	Same as 23, but with absorptive material on one side (4)	D	1 h	54
Interior wood, 2 rows on separate plates	26	Two rows 38-mm × 89-mm studs, each set 400-mm or 600-mm o.c. on 38-mm × 89-mm plates set 25-mm apart, with absorptive material on one side (4)	C	1 h	50
	27	Same as 26, but with absorptive material on both sides (5)	A (6)	45 min	57
	28	Same as 26, but absorptive material on both sides (4)	C	1 h	57
	29	Same as 26, but with absorptive material on both sides (4)	D	1 h	63
Exterior, wood stud,	30	38-mm × 89-mm or 38-mm × 140-mm studs spaced up to 600-mm o.c., mineral fibre with a mass of at least 1.2 kg/m <sup>2</sup> , wall sheathing and siding	A (6) (interior side)	45 min	N/A
	31	Same as 30	C or D (interior side)	1 h	N/A
Column 1	2	3	4	5	6



Table 9.10.3.A.—(Cont'd)  
Forming Part of Articles 9.10.3.1., 9.11.2.1. and 9.11.2.2.

Fire and Sound Resistance of Walls					
Type of Wall	No.	Description	Finish on Each Side (1)	Fire-Resistance Rating,	Typical Sound Transmission Class (1)
	32	90-mm steel studs spaced up to 600-mm o.c.	C	45 min	39
Nonload-bearing steel stud	33	Same as 32, with absorptive material in cavity	C	1 h	45
	34	Same as 32, with absorptive material in cavity (4)	D	1 h	53
Column 1	2	3	4	5	6

Addendum to Table 9.10.3.A.:

- (1) Finishes designated by letter as follows:  
A = 12.7 mm gypsum board with joints taped and filled.  
B = 12.7 mm gypsum-sand plaster.  
C = 15.9 mm special fire-resistant Type X gypsum board conforming to CSA A82.27, "Gypsum Board Products" with joints taped and filled, and  
D = two layers of 12.7 mm gypsum board with joints taped and filled.
- (2) Sound ratings listed are based on the most reliable laboratory test data available. Results of specific tests may differ slightly because of measurement precision and minor variations in construction details. Constructions with sound transmission class ratings of 50 or more require acoustical sealant applied around electrical boxes and other openings, and at the junction of intersecting walls and floors, except intersection of walls constructed of concrete or solid brick.
- (3) Sound ratings require no discernible cracks or voids. For concrete blocks, surfaces must be sealed by at least 2 coats of paint or other surface finish described in Section 9.29 to prevent sound leakage.
- (4) Sound absorptive material includes fibre processed from rock, slag, or glass, and must fill at least three-quarters of the cavity space to provide the listed STC.
- (5) Absorptive material required to achieve fire-resistance rating and STC rating includes mineral fibre processed from rock or slag with a mass of at least 1.22 kg/m<sup>2</sup> and completely filling the wall cavity.
- (6) Regular gypsum board shall be installed so that all edges are supported.

Table 9.10.3.B.  
Forming Part of Articles 9.10.3.1. and 9.11.2.1.

Fire and Sound Resistance of Floors, Ceilings and Roofs					
Type of Assembly	No.	Description	Finish on Ceiling (1)	Fire-Resistance Rating, h	Typical Sound Transmission Class (2)
Concrete slabs	1	90-mm reinforced concrete with 20-mm minimum cover over reinforcing steel	None (3)	1 h	48
	2	130-mm reinforced concrete with 25-mm minimum cover over reinforcing steel	None (3)	2 h	52
Open web steel joists	3	Open web steel joists at 400-mm o.c. with minimum 50-mm thick concrete deck, ceiling secured to furring channels spaced not more than 600-mm o.c. wired to underside of joists (4)	C	45 min	53
Column 1	2	3	4	5	6

**Table 9.10.3.B.—(Cont'd)**  
Forming Part of Articles 9.10.3.1. and 9.11.2.1.

Fire and Sound Resistance of Floors, Ceilings and Roofs					
Type of Assembly	No.	Description	Finish on Ceiling (1)	Fire-Resistance Rating, h	Typical Sound Transmission Class (2)
Wood floor joists spaced not more than 400-mm o.c.	4	Subfloor of 19-mm T&G lumber or 15.5-mm plywood, waferboard or strandboard, ceiling finish attached to metal resilient channels spaced at 200-mm o.c. Absorptive material in cavity (4)	C	45 min	48
or	5	Same as 4, with additional layer of 11-mm sanded plywood, waferboard or strandboard on floor	C	45 min	50
Wood floor trusses (5) spaced not more than 600-mm o.c.	6	19-mm gypsum-concrete topping (at least 34 kg/m <sup>2</sup> ) on subfloor of 19-mm T&G lumber or 15.5-mm plywood, waferboard or strandboard	D	45 min	52
	7	Same as 6	E	1 h	52
	8	Same as 6, with absorptive material in cavity (4), ceiling finish attached to metal resilient channels spaced at 200-mm o.c.	C	45 min	55
	9	38-mm lightweight concrete topping (at least 70 kg/m <sup>2</sup> ) on subfloor of 19-mm lumber or 15.5-mm plywood, waferboard or strandboard	D	45 min	54
	10	Same as 9	E	1 h	56
	11	Same as 9, except ceiling finish attached to metal resilient channels	C	45 min	57
	12	Same as 9, with absorptive material in cavity (4), ceiling finish attached to metal resilient channels spaced at 200-mm o.c.	C	45 min	60
Rating provided by membrane only	13	Supporting members spaced not more than 600-mm o.c.	C	30 min	N/A
	14	Same as 13	E	1 h	N/A
Wood roof trusses spaced not more than 600-mm o.c.	15	38-mm × 89-mm framing members with metal connector plates not less than 1 mm thick with teeth not less than 8-mm in length	C	45 min	N/A
Column 1	2	3	4	5	6

Addendum to Table 9.10.3.B.:

## (1) Finishes designated by letter as follows:

C = 15.9-mm special fire-resistant Type X gypsum board conforming to CSA A82.27, "Gypsum Board Products" with joints taped and filled, and

D = two layers of 12.7-mm gypsum board with joints taped and filled.

E = two layers of 15.9-mm special fire-resistant Type X gypsum board with joints taped and filled.

## (2) Sound ratings listed are based on the most reliable laboratory test data available. Results of specific tests may differ slightly because of measurement precision and minor variations in construction details. Constructions with sound transmission class ratings of 50 or more require acoustical sealant applied around electrical boxes and other openings, and at the junction of intersecting walls and floors, except intersection of walls constructed of concrete or solid brick.

## (3) Sound ratings assume no cracks or voids.

## (4) Sound absorptive material includes fibre processed from rock, slag, or glass, and must fill at least three-quarters of the cavity space to provide the listed STC.

## (5) Floor trusses have 38-mm × 89-mm wood framing members with metal connector plates not less than 1 mm thick with teeth not less than 8-mm in length.

**9.10.3.2. Flame-Spread Rating**

(1) Where a *flame-spread rating* is required in this Section for an element of a *building*, such rating shall be determined in accordance with the test methods described in Part 3, or in accordance with Chapter 2 of the Supplement to the NBC 1990.

(2) Unless the *flame-spread rating* is referred to herein as a "surface *flame-spread rating*", it shall apply to any surface of the element being considered that would be exposed by cutting through it as well as to the exposed surface of the element.

**9.10.3.3. Fire Exposure**

(1) Floor, roof and ceiling assemblies shall be rated for exposure to fire on the underside.

(2) Exterior walls shall be rated for exposure to fire from inside the *building*, except that such walls need not comply with the temperature rise limitations required by the standard tests referred to in Article 9.10.3.1, if such walls have a *limiting distance* of at least 1.2 m, and due allowance is made for the effects of heat radiation in accordance with the requirements in Part 3.

(3) *Firewalls* and interior vertical *fire separations* required to have *fire-resistance ratings* shall be rated for exposure to fire on each side.

**9.10.3.4. Suspended Membrane Ceiling.** Where a ceiling construction has a suspended membrane ceiling with lay-in panels or tiles which contribute to the required *fire-resistance rating*, hold down clips or other means shall be provided to prevent the lifting of such panels or tiles in the event of a fire.

**9.10.4. Building Size Determination****9.10.4.1. Mezzanines not Considered as Storeys**

(1) *Mezzanines* shall not be considered as *storeys* for the purpose of determining *building height* where the aggregate area of *mezzanine* floors does not exceed 10 per cent of

(a) the *suite* in which it is located, where there is more than one *suite* in the *storey*, or

(b) the *storey* in which it is located, in all other cases.

(2) *Mezzanines* shall not be considered as *storeys* for the purpose of determining *building height* where they occupy an aggregate area not exceeding 40 per cent of the area of the room or the *storey* in which they are located provided the space above the *mezzanine* floor has no visual obstructions more than 1 070 mm above such floors.

**9.10.4.2. More Than One Level of Mezzanine.** Where more than 1 tier of *mezzanine* is provided in a *storey*, each tier additional to the first shall be considered as a *storey*.

**9.10.4.3. Basement Storage Garage.** Where a *basement* is used primarily as a *storage garage*, the *basement* may be considered as a separate *building* for the purposes of this Section provided the floor above the *basement* and the exterior walls of the *basement* above the adjoining ground level are constructed as *fire separations* of masonry or concrete having a *fire-resistance rating* of not less than 2 h.

**9.10.4.4. Roof-Top Enclosures.** Roof-top enclosures provided for elevator machinery, stairways and *service rooms*, used for no purpose other than for service to the *building*, shall not be considered as a *storey* in calculating the *building height*.

**9.10.5. Permitted Openings in Wall and Ceiling Assemblies****9.10.5.1. Permitted Openings in Wall and Ceiling Membranes**

(1) Except as permitted in Sentences (2) and (4), a membrane forming part of an assembly required to have a *fire-resistance rating* shall not be pierced by openings into the assembly unless the assembly has been tested and rated for such openings.

(2) A wall or ceiling membrane forming part of an assembly required to have a *fire-resistance rating* may be pierced by openings for electrical and similar service outlet boxes provided such outlet boxes are tightly fitted.

(3) Where boxes referred to in Sentence (2) are located on both sides of walls required to provide a *fire-resistance rating*, they shall be offset where necessary to maintain the integrity of the *fire separation*.

(4) A membrane ceiling forming part of an assembly assigned a *fire-resistance rating* on the basis of Chapter 2, "Fire performance Ratings" of the Supplement to the NBC 1990 or of Table 9.10.3.B. is permitted to be pierced by openings leading to ducts within the ceiling space provided the ducts, the amount of openings and their protection conform to the requirements of Chapter 2.

**9.10.6. Construction Types**

**9.10.6.1. Combustible Elements in Non-combustible Construction.** Where a wall, floor or roof assembly is required to be of *non-combustible construction*, *combustible* elements shall be limited in conformance with the requirements in Subsection 3.1.5.

**9.10.6.2. Heavy Timber Construction.** *Heavy timber construction* shall be considered to have 45 min *fire-resistance rating* when it is constructed in accordance with the requirements for *heavy timber construction* in Article 3.1.4.6.

**9.10.7. Protection of Steel Members**

**9.10.7.1. Protection of Structural Steel Members.** Except as permitted in Article 3.2.2.3., structural steel members used in construction required to have a *fire-resistance rating* shall be protected to provide the required *fire-resistance rating*.

**9.10.8. Fire Resistance in Relation to Occupancy and Height**

**9.10.8.1. Fire Resistance Ratings for Floors and Roofs.** Except as otherwise provided in this Subsection, the *fire-resistance ratings* of floors and roofs shall conform to Table 9.10.8.A.

**Table 9.10.8.A.**  
Forming Part of Article 9.10.8.1.

Minimum Required Fire-Resistance Ratings for Structural Members and Assemblies, h				
Major Occupancy	Maximum Building Height, Storeys	Building Element		
		Floors Except Floors over Crawl Spaces	Mezzanine Floors	Roofs
Residential (Group C)	3	45 min	45 min	—
All other occupancies	2	45 min	—	—
	3	45 min	45 min	45 min
Column 1	2	3	4	5

**9.10.8.2. Fire Resistance Ratings in Sprinklered Buildings.** The requirements in Table 9.10.8.A. for roof assemblies to have a *fire-resistance rating* may be waived in *sprinklered buildings* where the sprinkler system conforms to Sentence 3.2.2.12.(1).

**9.10.8.3. Fire Resistance Ratings for Walls, Columns and Arches.** Except as otherwise provided in this Subsection, all *loadbearing* walls, columns and arches in the *storey* immediately below a floor or roof assembly shall have a *fire-resistance rating* of not less than that required for the supported floor or roof assembly.

**9.10.8.4. Service Rooms.** Construction supporting a *service room* need not conform to Article 9.10.8.3.



**9.10.8.5. Mezzanines.** Mezzanines required to be counted as *storeys* in Articles 9.10.4.1. and 9.10.4.2. shall be constructed in conformance with the requirements of Column 4 of Table 9.10.8.A.

**9.10.8.6. Roof Supporting an Occupancy.** Where a portion of a roof supports an *occupancy*, that portion shall be constructed as a *fire separation* having a *fire-resistance rating* conforming to the rating shown for floors in Column 3 of Table 9.10.8.A.

**9.10.8.7. Floors of Exterior Passageways.** The floor assembly of every exterior passageway used as part of a *means of egress* shall have a *fire-resistance rating* of not less than 45 min or be of *noncombustible construction*, except that no *fire-resistance rating* is required in *buildings* of Group D, E or F *major occupancy* that are not more than 2 *storeys* in *building height*.

**9.10.8.8. Crawl Spaces.** Where a crawl space exceeds 1.8 m in height or is used for any *occupancy* or as a *plenum* in *combustible construction* or for the passage of *flue pipes*, it shall be considered as a *basement* in applying the requirements in Article 9.10.8.1.

**9.10.8.9. Application to Houses.** Table 9.10.8.A. does not apply to a *dwelling unit* which has no other *dwelling unit* above or below it or to a *dwelling unit* which is not above or below another *major occupancy*.

**9.10.8.10. Part 3 as an Alternative.** The *fire-resistance ratings* of floors, roofs, *loadbearing* walls, columns and arches need not conform to this Subsection if such assemblies conform in all respects to the appropriate requirements in Section 3.2.

#### **9.10.9. Fire Separations Between Rooms and Spaces Within Buildings**

**9.10.9.1. Application.** This Subsection applies to *fire separations* required between rooms and spaces in *buildings* except between rooms and spaces within a *dwelling unit*.

**9.10.9.2. Continuous Barrier.** Except as permitted in Article 9.10.9.3., a wall or floor assembly required to be a *fire separation* shall be constructed as a continuous barrier against the spread of fire.

**9.10.9.3. Openings to be Protected With Closures.** Except as permitted in Articles 9.10.9.5., 9.10.9.6. and 9.10.9.7., openings in required *fire separations* shall be protected with *closures* conforming to Subsection 9.10.13.

#### **9.10.9.4. Floor Assemblies**

(1) Except as permitted in Sentences (2) to (4), all floor assemblies shall be constructed as *fire separations*.

(2) Floor assemblies contained within *dwelling units* need not be constructed as *fire separations*.

(3) Floor assemblies for which no *fire-resistance rating* is required by Subsection 9.10.8. and floors of *mezzanines* not required to be counted as *storeys* in Articles 9.10.4.1. and 9.10.4.2. need not be constructed as *fire separations*.

(4) Where a crawl space is not required by Article 9.10.8.8. to be constructed as a *basement*, the floor above it need not be constructed as a *fire separation*.

**9.10.9.5. Interconnected Floor Spaces.** Except as permitted in Article 9.9.4.7., *interconnected floor spaces* shall conform to the requirements of Subsection 3.2.8.

#### **9.10.9.6. Service Equipment Penetrating a Fire Separation**

(1) Piping, tubing, ducts, *chimneys*, wiring, conduit, electrical outlet boxes and other similar service equipment that penetrate a required *fire separation* shall be tightly fitted or fire stopped to maintain the integrity of the separation.

(2) Except as provided in Sentences (3) to (8), pipes, ducts, electrical outlet boxes, totally enclosed raceways or other similar service equipment that partly or wholly penetrate an assembly required to have a *fire-resistance rating* shall be *noncombustible* unless the assembly has been tested incorporating such equipment.

(3) Electrical wires or other similar wiring enclosed in *noncombustible* totally enclosed raceways may partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2).

(4) Electrical wires or cables, singly or grouped, with *combustible* insulation or jacketing that is not totally enclosed in raceways of *noncombustible* material, may partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the overall diameter of the wiring is not more than 25 mm.

(5) *Combustible* totally enclosed raceways which are embedded in a concrete floor slab are permitted in an

assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) where the concrete provides at least 50 mm of cover between the raceway and the bottom of slab.

(6) *Combustible* outlet boxes are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the opening through the membrane into the box does not exceed 160 cm<sup>2</sup>.

(7) *Combustible* water distribution piping that has an outside diameter not more than 30 mm is permitted to partly or wholly penetrate a vertical *fire separation* that is required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the piping is sealed in conformance with Clause 3.1.9.1.(1)(b).

(8) *Combustible* sprinkler piping is permitted to penetrate a *fire separation* provided the *fire compartments* on each side of the *fire separation* are sprinklered.

#### 9.10.9.7. Combustible Piping

(1) Except as permitted in Sentences (2) to (6), combustible piping shall not be used where any part of the piping system partly or wholly penetrates a *fire separation* required to have a *fire-resistance rating* or penetrates a membrane that forms part of an assembly required to have a *fire-resistance rating*.

(2) Combustible piping not located in a vertical shaft is permitted to penetrate a *fire separation* required to have a *fire-resistance rating* or a membrane that forms part of an assembly required to have a *fire-resistance rating* provided the piping is sealed at the penetration by a firestop system that has an F rating not less than the *fire-resistance rating* required for the *fire separation*.

(3) The rating referred to in Sentence (2) shall be based on CAN4-S115, "Standard Method of Fire Tests for Firestop Systems" with a pressure differential of 50 Pa between the exposed and unexposed sides, with the higher pressure on the exposed side.

(4) Combustible drain piping is permitted to penetrate a horizontal *fire separation* provided it leads directly from a *noncombustible* floor-mounted water closet through a concrete floor slab.

(5) *Combustible* piping is permitted

(a) on one side of a vertical *fire separation* provided it is not located in a vertical shaft, and

(b) to penetrate a vertical or horizontal *fire separation* when the fire compartment on each side of the *fire separation* is sprinklered.

(6) In buildings containing two dwelling units only, *combustible* piping is permitted on one side of a horizontal *fire separation*.

**9.10.9.8. Collapse of Combustible Construction.** *Combustible construction* that abuts on or is supported by a *noncombustible fire separation* shall be constructed so that its collapse under fire conditions will not cause collapse of the *fire separation*.

**9.10.9.9. Reduction in Thickness of Fire Separation by Beams and Joists.** Beams and joists framed into a masonry or concrete *fire separation* shall not reduce the thickness of the *fire separation* to less than 100 mm of masonry or concrete.

#### 9.10.9.10. Concealed Spaces above Fire Separations

(1) Except as provided in Sentence (2), a horizontal service space or other concealed space located above a required vertical *fire separation* shall be divided at the *fire separation* by an equivalent *fire separation* within the space.

(2) Where a *horizontal service space* or other concealed space is located above a required vertical *fire separation* other than a vertical shaft, such space need not be divided as required in Sentence (1) provided the construction between such space and the space below is constructed as a *fire separation* having a *fire-resistance rating* not less than that required for the vertical *fire separation*, except that where the vertical *fire separation* is not required to have a *fire-resistance rating* greater than 45 min, the *fire-resistance rating* of the ceiling may be reduced to 30 min.

#### 9.10.9.11. Separation of Residential Occupancies

(1) Except as provided in Sentence (2), *residential occupancies* shall be separated from all other *major occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

(2) A *major occupancy* classified as a *residential occupancy* shall be separated from other *major occupancies*

classified as *mercantile* or *medium hazard industrial occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 2 h, except that where not more than 2 *dwelling units* are located in a *building* containing a *mercantile occupancy*, such *mercantile occupancy* shall be separated from the *dwelling units* by a *fire separation* having not less than 1 h *fire-resistance rating*.

**9.10.9.12. Residential Suites in Industrial Buildings.** Not more than 1 *suite* of *residential occupancy* shall be contained within a *building* classified as a Group F, Division 2 *major occupancy*.

**9.10.9.13. Separation of Suites**

(1) Except as required in Article 9.10.9.14., and as permitted by Sentence (2), each *suite* in other than *business and personal services occupancies* shall be separated from adjoining *suites* by a *fire separation* having a *fire-resistance rating* of at least 45 min.

(2) In *sprinklered buildings*, *suites* of *business and personal services occupancy* and *mercantile occupancy* that are served by *public corridors* conforming with Clause 3.3.1.3.(4)(c) are not required to be separated from each other by *fire separations*.

**9.10.9.14. Separation of Residential Suites**

(1) Except as provided in Sentences (2) and (3) and Article 9.10.20.2., *suites* in *residential occupancies* shall be separated from adjacent rooms and *suites* by a *fire separation* having a *fire-resistance rating* of not less than 45 min.

(2) Sleeping rooms in *boarding, lodging or rooming houses* where sleeping accommodation is provided for not more than 8 boarders or lodgers shall be separated from the remainder of the floor area by a *fire separation* having a *fire-resistance rating* of not less than 30 min where the sleeping rooms form part of the proprietor's residence and do not contain cooking facilities.

(3) *Dwelling units* that contain 2 or more *storeys* including *basements* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

**9.10.9.15. Separation of Public Corridors**

(1) Except as provided in Sentences (2) and (3), *public corridors* shall be separated from the remainder of the *building* by a *fire separation* having not less than a 45 min *fire-resistance rating*.

(2) In other than *residential occupancies*, no *fire-resistance rating* is required between a *public corridor* and the remainder of the *building* if the floor area is *sprinklered* in conformance with Sentence 3.3.1.4.(2).

(3) In other than *residential occupancies*, no *fire separation* is required between a *public corridor* and the remainder of the *building* if the floor area is *sprinklered* in conformance with Sentence 3.3.1.4.(2) and the corridor exceeds 5 m in width.

**9.10.9.16. Separation of Storage Garages**

(1) Except as provided in Sentences (2) and (3), a *storage garage* shall be separated from other *occupancies* by a *fire separation* having not less than a 1.5 h *fire-resistance rating*.

(2) Except as permitted in Sentence (3), *storage garages* containing 5 cars or fewer shall be separated from other *occupancies* by a *fire separation* of not less than 1 h.

(3) Where a *storage garage* serves only the *dwelling unit* to which it is attached or built in, it shall be considered as part of that *dwelling unit*, and the *fire separation* required in Sentence (2) need not be provided between the garage and the *dwelling unit* where

(a) the construction between the garage and the *dwelling unit* provides an effective barrier to gas and exhaust fumes, and

(b) every door between the garage and *dwelling unit* conforms to Article 9.10.13.15.

**9.10.9.17. Separation of Repair Garages**

(1) Except as provided in Sentence (2), a *repair garage* shall be separated from other *occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(2) Ancillary spaces directly serving a *repair garage*, including waiting rooms, reception rooms, tool and parts storage areas and supervisory office space need not be separated from the *repair garage* but shall be separated from other *occupancies* as required in Sentence (1).

**9.10.9.18. Exhaust Ducts Serving More Than One Fire Compartment.** Where a *vertical service space* contains an *exhaust duct* that serves more than one *fire compartment*, the duct shall have a fan located at or near the



exhaust outlet to ensure that the duct is under negative pressure, and such individual *fire compartments* shall not have fans that exhaust directly into the duct in the *vertical service space*.

#### 9.10.10. Service Rooms

**9.10.10.1. Application.** This Subsection applies to *service rooms* in all *buildings* except rooms located within a *dwelling unit*.

**9.10.10.2. Service Room Floors.** The *fire-resistance rating* requirements in this Subsection do not apply to the floor assembly immediately below a *service room*.

#### 9.10.10.3. Separation of Service Rooms

(1) Except as required in Sentence (2) and Articles 9.10.10.5., and 9.10.10.6., *service rooms* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h when the *floor area* containing the *service room* is not *sprinklered*.

(2) Where a room contains a limited quantity of service equipment and the service equipment does not constitute a fire hazard, the requirements in Sentence (1) shall not apply.

#### 9.10.10.4. Appliances and Equipment to be Located in a Service Room

(1) Except as provided in Sentence (2) and Article 9.10.10.5., fuel-fired *appliances* other than fireplaces shall be located in a *service room* separated from the remainder of the *building* by a *fire separation* having not less than a 1 h *fire-resistance rating*.

(2) Except as required in the *appliance* installation standards referenced in Sentence 6.2.1.4.(1) and Article 9.33.1.2., fuel-fired *space-heating appliances*, *space-cooling appliances* and *service water heaters* need not be separated from the remainder of the *building* as required in Sentence (1) where the equipment serves

(a) not more than one room or *suite*, or

(b) a *building* with a *building area* of not more than 400 m<sup>2</sup> and a *building height* of not more than 2 storeys.

#### 9.10.10.5. Incinerators

(1) *Service rooms* containing incinerators shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(2) The design, construction, installation and alteration of each indoor incinerator shall conform to NFPA 82, "Incinerators, Waste and Linen Handling Systems and Equipment".

(3) Every incinerator shall be connected to a *chimney flue* conforming to the requirements in Section 9.21. and serving no other *appliance*.

(4) An incinerator shall not be located in a room with other fuel-fired *appliances*.

**9.10.10.6. Storage Rooms.** Rooms for the temporary storage of *combustible* refuse in all *occupancies* or for public storage in *residential occupancies* shall be separated from the remainder of the *building* by a *fire separation* having not less than a 1 h *fire-resistance rating*, except that a 45 min *fire separation* is permitted where the *fire-resistance rating* of the floor assembly is not required to exceed 45 min, or where such rooms are *sprinklered*.

**9.10.10.7. Storage Rooms in a Hotel.** In a *building* containing a *hotel*, unsprinklered storage rooms and closets shall be separated, or shall be contained within a *suite* that is separated from the remainder of the *building* by a *fire-separation* having a *fire-resistance rating* of at least 45 min.

#### 9.10.11. Firewalls

**9.10.11.1. Required Firewalls.** Except as provided in Articles 9.10.11.2. and 9.10.11.4., a *party wall* on a property line shall be constructed as a *firewall*.

#### 9.10.11.2. Firewalls Not Required

(1) In a *building* of *residential occupancy* in which there is no *dwelling unit* above another *dwelling unit*, a *party wall* on a property line between *dwelling units* need not be constructed as a *firewall* provided it is constructed as a *fire separation* having not less than a 1 h *fire-resistance rating*, and

(2) The wall described in Sentence (1) shall provide continuous protection from the top of the footings to the underside of the roof deck.



(3) Any space between the top of the wall described in Sentence (1) and the roof deck shall be tightly sealed by caulking with mineral wool or *noncombustible* material.

**9.10.11.3. Construction of Firewalls.** Where *firewalls* are used, the requirements in Subsection 3.1.10. shall apply.

**9.10.11.4. Firewalls in Detached Garages.** Where a garage is detached from the *dwelling unit* but attached to another garage on the adjacent property, the *party wall* so formed shall be constructed as a *fire separation* having a *fire-resistance rating* of not less than 45 min.

**9.10.12. Prevention of Fire Spread at Exterior Walls and Between Storeys**

**9.10.12.1. Separation of Exterior Openings.** In *buildings of mercantile or medium hazard industrial occupancy*, the exterior openings in one *storey* shall be separated from openings in an adjacent *storey* by not less than 1 m of wall, or a canopy or balcony not less than 1 m in width having a *fire-resistance rating* not less than that required for the floor assembly, except that the rating need not exceed 1 h.

**9.10.12.2. Termination of Floors or Mezzanines**

(1) Except as provided in Sentence (2) and in Articles 9.10.1.6. and 9.10.9.5., the portions of a *floor area* or *mezzanine* that do not terminate at an exterior wall, a *firewall* or a vertical shaft, shall terminate at a vertical *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly that terminates at the separation.

(2) A mezzanine need not terminate at a vertical *fire separation* where the *mezzanine* is not required to be considered as a *storey* in Articles 9.10.4.1. and 9.10.4.2.

**9.10.12.3. Location of Skylights.** Where a wall in a *building* is exposed to a fire hazard from an adjoining roof of a separate unsprinklered *fire compartment* in the same *building*, the roof shall contain no skylights within a horizontal distance of 5 m of the windows in the exposed wall.

**9.10.12.4. Exterior Walls Meeting at an Angle**

(1) Except as provided in Articles 9.10.14.14. and 9.9.4.5., where exterior walls of a *building* meet at an external angle of less than 135°, the horizontal distance from an opening in one wall to an opening in the other wall shall be not less than 1.2 m where the openings are in different *fire compartments*.

(2) The exterior wall of each *fire compartment* in Sentence (1) within the 1.2 m distance, shall have a *fire-resistance rating* not less than that required for the interior vertical *fire separation* between the compartment and the remainder of the *building*.

**9.10.12.5. Protection of Soffits**

(1) Except as provided in Sentence (2), where a common *attic* or *roof space* spans more than 2 *suites* of *residential occupancy*, and projects beyond the exterior wall of the *building*, the portion of any soffit or other surface enclosing the projection which is less than 2.5 m vertically above a window or door and less than 1.2 m from either side of the window or door, shall have no unprotected openings and shall be protected by

- (a) *noncombustible* material having a minimum thickness of at least 0.38 mm and a melting point not below 650°C,
- (b) not less than 11 mm thick plywood,
- (c) not less than 12.5 mm thick waferboard or strandboard, or
- (d) not less than 11 mm thick lumber.

(2) Where such soffit or other surface is completely separated from the remainder of the *attic* or *roof space* by firestopping, the requirements in Sentence (1) do not apply.

**9.10.13. Doors, Dampers and Other Closures in Fire Separations**

**9.10.13.1. Closures.** Except as provided in Article 9.10.13.2., openings in required *fire separations* shall be protected with a closure conforming to Table 9.10.13.A. and shall be installed in conformance with Chapters 2 to 14 of NFPA 80, "Fire Doors and Windows" unless otherwise specified herein.

**Table 9.10.13.A.**  
Forming Part of Article 9.10.13.1.

Fire-Protection Ratings for Closures	
Required Fire-Resistance Rating of Fire-Separation, h	Required Fire-Protection Rating of Closure, h
30 or 45 min	20 min (1)
1 h	45 min (1)
1.5 h	1 h
2 h	1.5 h
2 h	2 h
4 h	3 h
Column 1	2

**Note to Table 9.10.13.A.:**

(1) See Article 9.10.13.2.

**9.10.13.2. Solid Core Wood Door as a Closure**

(1) A 45 mm thick solid core wood door where a minimum *fire-protection rating* of 20 min is permitted or between a *public corridor* and a *suite* provided the door conforms to CAN4-S113, "Standard Specification for Wood Core Doors Meeting the Performance Required by CAN4-S104 for Twenty Minute Fire-Rated Closure Assemblies."

(2) Doors described in Sentence (1) shall have not more than a 6 mm clearance beneath and not more than 3 mm at the sides and top.

(3) Where a 45 mm thick solid core wood door is permitted in a required *fire separation*, the requirement for a *noncombustible* sill in NFPA 80, "Fire Doors and Windows" shall not apply.

**9.10.13.3. Unrated Wood Door Frames.** Doors required to provide a 20 min *fire-protection rating* or permitted to be 45 mm solid core wood shall be mounted in a wood frame of at least 38 mm thickness where the frame has not been tested and rated.

**9.10.13.4. Doors as a Means of Egress.** Doors forming part of an *exit* or a public *means of egress* shall conform to Subsection 9.9.6. in addition to this Subsection.

**9.10.13.5. Wired Glass as a Closure**

(1) Wired glass conforming to Article 9.7.3.1. which has not been tested in accordance with Article 9.10.3.1. is permitted as a *closure* in a vertical *fire separation* required to have a *fire-resistance rating* of not more than 1 h provided such glass is not less than 6 mm thick and is mounted in conformance with Sentence (2).

(2) Wired glass described in Sentence (1) shall be mounted in fixed steel frames having a minimum metal thickness of 1.35 mm and providing a glazing stop of at least 20 mm on each side of the glass.

(3) Individual panes of glass described in Sentence (1) shall not exceed 0.84 m<sup>2</sup> in area or 1.4 m in height or width, and the area of glass not structurally supported by mullions shall not exceed 7.5 m<sup>2</sup>.

**9.10.13.6. Steel Door Frames.** Steel door frames forming part of a *closure* in a *fire separation*, including anchorage requirements, shall conform to CAN4-S105, "Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104."

**9.10.13.7. Glass Block as a Closure.** Glass block that has not been tested in accordance with Article 9.10.3.1. is permitted as a *closure* in a *fire separation* required to have a *fire-resistance rating* of not more than 1 h.

**9.10.13.8. Maximum Size of Closure**

(1) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall not exceed 11 m<sup>2</sup> in area with no dimension greater than 3.7 m, when the *fire compartments* on both sides of the *fire separation* are not *sprinklered*.

(2) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall not exceed 22 m<sup>2</sup>, with no dimension greater than 6 m, when the *fire compartments* on both sides of the *fire separation* are *sprinklered*.

**9.10.13.9. Door Latch.** Every swing type door in a *fire separation* shall be equipped with a latch.

**9.10.13.10. Self-Closing Device**

(1) Except as described in Sentence (2), every door in a *fire separation* shall have a self-closing device.

(2) Self-closing devices are not required between *public corridors* and *suites in business and personal services occupancies*, except in dead end corridors.

**9.10.13.11. Hold-Open Devices.** Where hold-open devices are used on doors in required *fire separations*, they shall be installed in accordance with Article 3.1.8.12.

**9.10.13.12. Service Room Doors.** Swing-type doors shall open into *service rooms* containing fuel-fired equipment where such doors lead to *public corridors* or rooms used for assembly but shall swing outward from such rooms in all other cases.

**9.10.13.13. Fire Dampers**

(1) Except as permitted in Sentences (2) to (5) and 9.10.5.1.(4) ducts that connect 2 *fire compartments* or penetrate an assembly required to be a *fire separation* with a *fire-resistance rating* shall be equipped with a *fire damper* in conformance with Article 3.1.8.9.

(2) A *fire damper* is not required where a *noncombustible* branch duct pierces a required *fire separation* provided the melting point of the duct is not below 760°C, a cross-sectional area less than 130 cm<sup>2</sup> and supplies only air-conditioning units or combined air-conditioning and heating units discharging air at not more than 1.2 m above the floor.

(3) A *fire damper* is not required where a *noncombustible* branch duct pierces a required *fire separation* around an *exhaust duct* riser in which the air flow is upward provided the melting point of the branch duct is not below 760°C, the branch duct is carried up inside the riser at least 500 mm and the *exhaust duct* is under negative pressure as described in Article 9.10.9.18.

(4) *Noncombustible* ducts that penetrate a *fire separation* separating a *vertical service space* from the remainder of the *building* need not be equipped with a *fire damper* at the *fire separation* provided the ducts have a melting point above 760°C and each individual duct exhausts directly to the outside at the top of the *vertical service space*.

(5) A duct serving commercial cooking equipment and piercing a required *fire separation* need not be equipped with a *fire damper* at the *fire separation*.

**9.10.13.14. Fire Stop Flaps.** *Fire stop flaps* in ceiling membranes required in Sentence 9.10.5.1.(4) shall conform to CAN4-S112.2-M, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies."

**9.10.13.15. Doors Between Garages and Dwelling Units**

(1) A door between an attached or built-in garage and a *dwelling unit* shall be tight-fitting and weather-stripped to provide an effective barrier against the passage of gases and exhaust fumes and shall be fitted with a self-closing device.

(2) A doorway between an attached or built-in garage and a *dwelling unit* shall not be located in a room intended for sleeping.

**9.10.13.16. Door Stops.** Where a door is installed so that it may damage the integrity of a *fire separation* if its swing is unrestricted, door stops shall be installed to prevent such damage.

**9.10.14. Spatial Separations Between Buildings**

**9.10.14.1. Maximum Percentage of Unprotected Openings**

(1) Except as provided in Sentence (2) and in Articles 9.10.14.3. to 9.10.14.11., the maximum percentage of *unprotected openings* in an *exposing building face* shall conform to Table 9.10.14.A. or to Subsection 3.2.3., whichever is the least restrictive for the occupancy being considered.

(2) An opening in an *exposing building face* not more than 130 cm<sup>2</sup> shall not be considered an *unprotected opening*.



**Table 9.10.14.A.**  
Forming Part of Article 9.10.14.1.

Maximum Percentage of Unprotected Openings in Exterior Walls													
Occupancy Classification of Building	Maximum Area of Exposing Building Face, m <sup>2</sup>	Limiting Distance											
		Less than 1.2 m	1.2 m	1.5 m	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	12.0 m	16.0 m	20.0 m	25.0 m
<i>Residential business and personal services, low hazard industrial</i>	30	0	7	9	12	39	88	100	—	—	—	—	—
	40	0	7	8	11	32	69	100	—	—	—	—	—
	50	0	7	8	10	28	57	100	—	—	—	—	—
	100	0	7	8	9	18	34	56	84	100	—	—	—
	Over 100	0	7	7	8	12	19	28	40	55	92	100	—
<i>Mercantile and medium hazard industrial</i>	30	0	4	4	6	20	44	80	100	—	—	—	—
	40	0	4	4	6	16	34	61	97	100	—	—	—
	50	0	4	4	5	14	29	50	79	100	—	—	—
	100	0	4	4	4	9	17	28	42	60	100	—	—
	Over 100	0	4	4	4	6	10	14	20	27	46	70	100
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14

**9.10.14.2. Area of Exposing Building Face.** The area of an *exposing building face* shall be calculated as the total area of exterior wall facing in 1 direction on any side of a *building* measured from the finished ground level to the uppermost ceiling, except that where a *building* is divided by *fire separations* into *fire compartments*, the area of *exposing building face* may be calculated for each *fire compartment* provided such separations have not less than a 45 min *fire-resistance rating*.

**9.10.14.3. Inadequate Fire Fighting Facilities.** Where there is no fire department or where a fire department is not organized, trained and equipped to meet the needs of the community, the limiting distance determined from Article 9.10.14.1. or required in Articles 9.10.14.12., 9.10.14.14., and 9.10.14.16., shall be doubled.

**9.10.14.4. Alternate Method of Determining Limiting Distance.** The *limiting distance* shown in Table 9.10.14.A. may be reduced provided it is not less than the square root of the aggregate area of *unprotected openings* in an *exposing building face* in *residential occupancies*, *business and personal services occupancies* and *low hazard industrial occupancies*, and is not less than the square root of twice the aggregate area of *unprotected openings* in *mercantile occupancies* and *medium hazard industrial occupancies*.

**9.10.14.5. Openings in Walls Having a Limiting Distance Less Than 1.2 m.** Openings in a wall having a *limiting distance* of less than 1.2 m shall be protected by *closures*, of other than wired glass or glass block, whose *fire protection rating* is in conformance with the *fire-resistance rating* required for the wall.

**9.10.14.6. Allowance for Sprinklers and Wired Glass or Glass Block.** The maximum area of *unprotected openings* may be doubled where the *building* is *sprinklered*, or where the *unprotected openings* are glazed with wired glass in steel frames or glass blocks as described in Articles 9.10.13.5. and 9.10.13.7.

**9.10.14.7. Exterior Wall Construction for Irregular-Shaped Buildings.** For the purpose of using Table 9.10.14.A. to determine the required type of construction, cladding and *fire-resistance rating* for an exterior wall, the *exposing building face* shall be taken as the projection of the exterior wall onto a vertical plane located so that no portion of the exterior wall of the *building* is between the vertical plane and the line to which the limiting distance is measured and, for these purposes, the permitted area of *unprotected openings* shall be determined from Table 9.10.14.A. or Article 9.10.14.4., using the *limiting distance* measured from this *exposing building face*.

**9.10.14.8. Percentage of Unprotected Openings for Irregular-Shaped Buildings.** For the purpose of using Table 9.10.14.A. to determine the actual percentage of *unprotected openings* permitted in an exterior wall, the location of the *exposing building face* is permitted to be taken at a vertical plane located so that there are no *unprotected openings* between the vertical plane and the line to which *limiting distance* is measured.

**9.10.14.9. Storeys at Street Level.** The *exposing building face* of a *storey* that faces a *street* and is at approxi-



mately the same level as the *street* is permitted to have unlimited *unprotected openings* if the *limiting distance* is not less than 9 m.

**9.10.14.10. Open-Air Storage Garages.** An *exposing building face* of an *open-air storey* in a *storage garage* is permitted to have unlimited *unprotected openings* provided it has a *limiting distance* of 3 m.

**9.10.14.11. Construction of Exposing Building Face.** Except as permitted in Articles 9.10.14.12. to 9.10.14.16., each *exposing building face* and any exterior wall located above an *exposing building face* that encloses an *attic* or *roof space* shall be constructed in conformance with Table 9.10.14.B. and Subsection 9.10.8.

**Table 9.10.14.B.**  
Forming Part of Article 9.10.14.11.

Minimum Construction Requirements for Exposing Building Faces				
Occupancy Classification of Building	Maximum Percentage of Unprotected Openings permitted,	Minimum Required Fire-Resistance Rating, h	Type of Construction Required	Type of Cladding Required
<i>Residential business and personal services and low hazard industrial</i>	Not more than 10	1	<i>Noncombustible</i>	<i>Noncombustible</i>
	More than 10 but not more than 25	1	<i>Combustible or noncombustible</i>	<i>Noncombustible</i>
	More than 25 but not more than 100	¾	<i>Combustible or noncombustible</i>	<i>Combustible or noncombustible</i>
<i>Mercantile and medium hazard industrial</i>	Not more than 10	2	<i>Noncombustible</i>	<i>Noncombustible</i>
	More than 10 but not more than 25	2	<i>Combustible or noncombustible</i>	<i>Noncombustible</i>
	More than 25 but not more than 100	1	<i>Combustible or noncombustible</i>	<i>Combustible or noncombustible</i>
Column 1	2	3	4	5

**9.10.14.12. Exposing Building Face of Houses**

(1) Except as required in Article 9.10.14.3., in *buildings* containing only *dwelling units* in which there is no *dwelling unit* above another *dwelling unit*, the requirements of Article 9.10.14.11. do not apply provided that the *exposing building face* has a *fire-resistance rating* of not less than 45 min where the *limiting distance* is less than 1.2 m, and when the *limiting distance* is less than 0.6 m, the *exposing building face* is clad with *noncombustible material*.

(2) Window openings in the *exposing building face* referred to in Sentence (1) shall not be permitted if the *limiting distance* is less than 1.2 m and shall be limited in conformance with the requirements for *unprotected openings* in Article 9.10.14.1. where the *limiting distance* is 1.2 m or greater.

(3) Where the spatial separation between *dwelling units* on adjoining properties is registered on the titles of both properties, the spatial separation may be calculated as if the *dwelling units* were constructed on the same property.

**9.10.14.13. Combustible Projections.** Except for *buildings* containing 1 or 2 *dwelling units* only, *combustible projections* on the exterior of a wall that are more than 1 m above ground level, such as balconies, platforms, canopies, eave projections and stairs, and that could expose an adjacent *building* to fire spread, shall not be permitted within 1.2 m of a property line or the centreline of a *public way*, or within 2.4 m of a *combustible projection* on another *building* on the same property.

**9.10.14.14. Detached Garage Serving One Dwelling Unit**

(1) Except as required in Article 9.10.14.3., the *exposing building face* of a detached garage that serves one *dwelling unit* only shall have a *fire-resistance rating* of at least 45 min, except that no *fire-resistance rating* is required where the *limiting distance* is 0.6 m or greater.

(2) The exterior *cladding* of such detached garages is not required to be *noncombustible* regardless of the *limiting distance*.

(3) The percentage of window openings permitted in the *exposing building face* of such detached garages described in Sentence (1) shall conform to the requirements for *unprotected openings* in Article 9.10.14.1.

(4) Where a detached garage serves only one *dwelling unit* and is located on the same property as that *dwelling unit*, then the requirements for *limiting distance* shall not apply between the garage and the *dwelling unit*.

**9.10.14.15. Heavy Steel and Steel Columns.** Heavy timber and steel columns need not conform to the requirements of Article 9.10.14.11, provided the *limiting distance* is not less than 3 m.

**9.10.14.16. Low Fire Load Occupancies.** Except as required in Article 9.10.14.3., in *buildings* of 1 storey in *building height* of *noncombustible construction* classified as *low hazard industrial occupancy* which are used only for *low fire load occupancies* such as power generating plants or plants for the manufacture or storage of *noncombustible* materials, *non-loadbearing* wall components need not have a minimum *fire-resistance rating* provided the *limiting distance* is 3 m or more.

#### **9.10.15. Fire Stops**

##### **9.10.15.1. Required Fire Stops in Concealed Spaces**

(1) Concealed spaces in interior walls, ceilings and crawl spaces shall be separated by fire stops from concealed spaces in exterior walls and *attic or roof spaces*.

(2) Fire stops shall be provided at all interconnections between concealed vertical and horizontal spaces in interior coved ceilings, drop ceilings and soffits where the exposed construction materials within the concealed spaces have a surface *flame-spread rating* greater than 25.

(3) Fire stops shall be provided at the top and bottom of each run of stairs where they pass through a floor containing concealed space in which the exposed construction materials within the space have a surface *flame-spread rating* greater than 25.

(4) In unsprinklered *buildings of combustible construction*, every concealed space created by a ceiling, roof space or unoccupied attic space shall be separated by fire stops into compartments of not more than 300 m<sup>2</sup> in area where such space contains exposed construction materials having a surface *flame-spread rating* greater than 25.

(5) No dimension of such space shall exceed 20 m.

(6) Concealed spaces in mansard or gambrel style roofs, exterior cornices, balconies and canopies of *combustible construction* in which the exposed construction materials within the space have a surface *flame-spread rating* exceeding 25 shall have vertical fire stops at intervals of not more than 20 m and at points where such concealed spaces extend across the ends of required vertical *fire separations*.

##### **9.10.15.2. Required Fire Stops in Wall Assemblies**

(1) Except as permitted in Sentences (2) and (3), fire stops shall be provided to block off concealed spaces within wall assemblies, including spaces created by furring, at each floor level, and at each ceiling level where the ceiling contributes to part of the required *fire-resistance rating*, and at other locations within the wall, so that the distance between fire stops does not exceed 20 m horizontally and 3 m vertically.

(2) Fire stops required in Sentence (1) are not required provided the exposed construction materials within the wall space, including insulation, but not including wiring, piping or similar services, have a *flame-spread rating* of not more than 25.

(3) Fire stops required in Sentence (1) are not required provided the wall space is filled with insulation.

**9.10.15.3. Fire Stop Materials.** Fire stops shall be constructed of not less than 0.38 mm sheet steel, 6 mm asbestos board, 12.7 mm gypsum wallboard, 12 mm plywood, waferboard, or strandboard, with joints having continuous support, 2 layers of 19 mm lumber with joints staggered, 38 mm lumber or materials conforming to Sentence 3.1.11.7.(1).

**9.10.15.4. Penetration of Fire Stops.** Where fire stops are pierced by pipes, ducts or other elements, the effectiveness of the fire stops shall be maintained around such elements.

#### **9.10.16. Flame Spread Limits**

##### **9.10.16.1. Flame Spread Rating of Interior Surfaces**

(1) Except as otherwise provided in this Subsection, the exposed surface of every interior wall and ceiling, including skylights and glazing, shall have a surface *flame-spread rating* of not more than 150.

(2) Except as permitted in Sentence (3), doors need not conform to Sentence (1) provided they have a surface *flame-spread rating* of not more than 200.

(3) Doors within *dwelling units* need not conform to Sentences (1) and (2).

**9.10.16.2. Ceilings in Exits or Public Corridors.** At least 90 per cent of the exposed surface of every ceiling in an *exit* or unsprinklered ceiling in a *public corridor* shall have a surface *flame-spread rating* of not more than 25.

**9.10.16.3. Walls in Exits**

(1) Except as provided in Sentence (2), at least 90 per cent of the exposed surfaces of every wall in an *exit* shall have a surface *flame-spread rating* of not more than 25.

(2) At least 75 per cent of the wall surface of a lobby used as an *exit* in Article 9.9.8.5. shall have a surface *flame-spread rating* of not more than 25.

**9.10.16.4. Exterior Exit Passageways.** Where an exterior *exit* passageway provides the only *means of egress* from the rooms or *suites* it serves, the wall and ceiling finishes of that passageway, including the soffit beneath and the *guard* on the passageway, shall have a surface *flame-spread rating* of not more than 25, except that up to 10 per cent of the total wall area and 10 per cent of the total ceiling area is permitted to have a surface *flame-spread rating* of not more than 150.

**9.10.16.5. Walls in Public Corridors.** At least 90 per cent of the total wall surface in any unsprinklered *public corridor* shall have a surface *flame-spread rating* of not more than 75, or at least 90 per cent of the upper half of such walls shall have a surface *flame-spread rating* of not more than 25.

**9.10.16.6. Calculation of Wall and Ceiling Areas.** *Combustible* doors, skylights, glazing and *combustible* light diffusers and lenses shall not be considered in the calculation of wall and ceiling areas in this Subsection.

**9.10.16.7. Corridors Containing an Occupancy.** Where a *public corridor* or a corridor used by the public contains an *occupancy*, the interior finish materials used on the walls or ceiling of such *occupancy* shall have a surface *flame-spread rating* in conformance with that required for *public corridors*.

**9.10.16.8. Light Diffusers and Lenses.** Light diffusers and lenses having *flame-spread ratings* that exceed those permitted for the ceiling finish, shall conform to the requirements of Sentence 3.1.13.4.(1).

**9.10.16.9. Combustible Skylights.** Individual *combustible* skylights in corridors required to be separated from the remainder of the *building* by *fire separations* shall not exceed 1 m<sup>2</sup> in area and shall be spaced at least 1.2 m apart.

**9.10.16.10. Protection of Foamed Plastics**

(1) Foamed plastics which form part of a wall or ceiling assembly in *combustible construction* shall be protected from adjacent space in the *building* other than adjacent concealed spaces within *attic and roof spaces*, crawl spaces, and wall assemblies, by

- (a) one of the finishes described in Subsections 9.29.4. to 9.29.9.,
- (b) sheet metal mechanically fastened to the supporting assembly independent of the insulation and having a thickness of not less than 0.38 mm and a melting point not below 650°C provided the building does not contain a Group C *major occupancy*, or
- (c) any thermal barrier that meets the requirements of Clause 3.1.5.11.(2)(e).

**9.10.16.11. Walls and Ceilings in Bathrooms.** The interior finish of walls and ceilings in bathrooms within *suites of residential occupancy* shall have a surface *flame-spread rating* of not more than 200.

**9.10.16.12. Coverings or Linings of Ducts.** Where a covering or a lining is used with a duct, such lining or covering shall have a *flame-spread rating* conforming to Part 6.

**9.10.17. Alarm and Detection Systems**

**9.10.17.1. Access Provided through a Firewall.** Where access is provided through a *firewall*, the requirements in this Subsection shall apply to the *floor areas* on both sides of the *firewall* as if they were in the same *building*.

**9.10.17.2. Fire Alarm System Required**

(1) Except as provided in Sentence (2), a fire alarm system shall be installed in every *building* that contains more than 3 *storeys*, including *storeys* below the *first storey*, or where the total *occupant load* exceeds 300, or when the *occupant load* for any *major occupancy* in Table 9.10.17.A. is exceeded.



**Table 9.10.17.A.**  
Forming Part of Article 9.10.17.2.

<b>Maximum Occupant Load for Buildings without Fire Alarm System</b>	
<i>Major Occupancy Classification</i>	<i>Occupant Load Above which Fire Alarm System is Required</i>
<i>Residential</i>	10 (sleeping accommodation)
<i>Business and personal services, Mercantile</i>	150 above or below the <i>first storey</i>
<i>Low or medium hazard industrial</i>	75 above or below the <i>first storey</i>
Column 1	2

(2) A fire alarm system is not required in a *residential occupancy* where an *exit* or *public corridor* serves not more than 4 suites or where each *suite* has direct access to an exterior *exit* facility leading to ground level.

#### **9.10.17.3. Rooms and Spaces Requiring Heat Detectors or Smoke Detectors.**

(1) Where a fire alarm system is required, every *public corridor* in *buildings* of *residential occupancy* and every *exit* stair shaft shall be provided with *smoke detectors*.

(2) Except as provided in Sentence (3), *buildings* required to have a fire alarm system shall be equipped with *heat detectors* or *smoke detectors* in storage rooms, *service rooms*, elevator shafts, chutes, janitors' closets and any other rooms where hazardous substances are intended to be used or stored.

(3) Except as required in Sentence (4), *heat detectors* and *smoke detectors* described in Sentence (2), are not required in *dwelling units* or in *sprinklered buildings* in which the sprinkler system is electrically supervised and equipped with a water flow alarm.

(4) If a fire alarm system is required in a *building* containing a *hotel*, *heat detectors* or *smoke detectors* shall be installed in every room in a *suite* and in every room not located within a *suite* other than refrigerated areas, saunas and swimming pools.

**9.10.17.4. Smoke Detectors in Recirculating Air Handling Systems.** Except for a recirculating air system serving not more than 1 *dwelling unit*, where a fire alarm system is required to be installed, every recirculating air handling system shall be designed to prevent the circulation of smoke upon a signal from a duct-type *smoke detector* where such system supplies more than one *suite* on the same floor or serves more than 1 *storey*.

#### **9.10.17.5. Portions of Buildings Considered as Separate Buildings**

(1) Except as provided in Sentence (2), where a vertical *fire separation* having a *fire-resistance rating* of at least 1 h separates a portion of a *building* from the remainder of the *building* and there are no openings through the *fire separation* other than those for piping, tubing, wiring and conduit, the requirements for fire alarm and detection systems may be applied to each portion so separated as if it were a separate *building*.

(2) The permission in Sentence (1) to consider separated portions of a *building* as separate *buildings* does not apply to *service rooms* and storage rooms.

**9.10.17.6. Design and Installation Requirements.** Fire alarm, fire detection and smoke detection devices and systems, and their installation, shall conform to Subsection 3.2.4.

**9.10.17.7.** Reserved.

**9.10.17.8. Open-Air Storage Garages.** Except as required in Article 9.10.17.1., a fire alarm system is not required in a *storage garage* conforming to Article 3.2.2.60. provided there are no other *occupancies* in the *building*.

**9.10.17.9. Fire Alarm System in a Hotel.** If a fire alarm system is required in a *building* containing a *hotel*, a single stage fire alarm system shall be provided.

#### **9.10.18. Smoke Alarms**

**9.10.18.1. Required Smoke Alarms.** *Smoke alarms* conforming to CAN/ULC-S531, "Standard for Smoke Alarms" shall be installed in each *dwelling unit* and in each sleeping room not within a *dwelling unit*.



**9.10.18.2. Location of Smoke Alarms**

(1) Except as required in Sentence (2), *smoke alarms* shall be provided on each floor level near the stairs connecting floor levels.

(2) On floor levels containing bedrooms or sleeping areas the required *smoke alarms* shall be installed between such bedrooms or sleeping areas and the remainder of the floor area, such as in a hallway or corridor serving such rooms or areas.

(3) *Smoke alarms* required in Sentences (1) and (2) shall be audible within the bedrooms when the intervening doors are closed.

(4) *Smoke alarms* required in Sentences (1) and (2) shall be installed in conformance with the manufacturers installation instructions.

**9.10.18.3. Power Supply**

(1) Except as permitted in Sentence (2), *smoke alarms* shall be installed by permanent connections to an electrical circuit and shall have no disconnect switch between the overcurrent circuit device and the *smoke alarm*.

(2) Where the *building* is not supplied with electrical power, *smoke alarms* may be battery operated.

**9.10.18.4. Interconnection of Smoke Alarms.** Where more than one *smoke alarm* is required in a *dwelling unit*, the *smoke alarms* shall be wired so that the activation of one alarm will cause all alarms within the *dwelling unit* to sound.

**9.10.18.5. Instructions for Maintenance and Repair.** Where instructions are necessary to describe the maintenance and care required for *smoke alarms* to ensure continuing satisfactory performance, they shall be posted in a location where they will be readily available to the occupants for reference.

**9.10.19. Fire Fighting****9.10.19.1. Windows or Access Panels Required**

(1) Except as provided in Sentence (3), a window or access panel providing an opening not less than 1 100 mm high and 550 mm wide and having a sill height of not more than 900 mm above the floor shall be provided on the second and third *storeys* of every *building* in not less than one wall facing on a *street* if such *storeys* are not *sprinklered*.

(2) Access panels required in Sentence (1) shall be readily openable from both inside and outside or be glazed with plain glass.

(3) Access panels as required in Sentence (1) need not be provided in *buildings* containing only *dwelling units* where there is no *dwelling unit* above another *dwelling unit*.

**9.10.19.2. Access to Basements**

(1) Except in *basements* serving not more than one *dwelling unit*, each unsprinklered *basement* exceeding 25 m in length or width shall be provided with direct access to the outdoors to not less than one street.

(2) Access required in Sentence (1) may be provided by a door, window or other means that provides an opening not less than 1 100 mm high and 550 mm wide, the sill height of which shall not be more than 900 mm above the floor.

(3) Access required in Sentence (1) may also be provided by an interior stair accessible from the outdoors.

**9.10.19.3. Fire Department Access to Buildings**

(1) Access for fire department equipment shall be provided to each *building* by means of a *street*, private roadway or yard.

(2) Where access to a *building* as required in Sentence (1) is provided by means of a roadway or yard, the design and location of such roadway or yard shall take into account connection with public thoroughfares, weight of fire fighting equipment, width of roadway, radius of curves, overhead clearance, location of fire hydrants, location of fire department connections and vehicular parking.

**9.10.19.4. Portable Extinguishers.** Portable fire extinguishers shall be installed in all *buildings*, except within *dwelling units*, in conformance with the provisions of the Ontario Fire Code made under the *Fire Marshals Act*.

**9.10.20. Fire Protection for Construction Camps**

**9.10.20.1. Requirements for Construction Camps.** Except as provided in Articles 9.10.20.2. to 9.10.20.9., *camps for housing of workers* shall conform to Subsections 9.10.1. to 9.10.19.

**9.10.20.2. Separation of Sleeping Rooms.** Except for sleeping rooms within *dwelling units*, sleeping rooms in a *building in a camp for housing of workers* shall be separated from each other and from the remainder of the *building* by a *fire separation* having not less than a 30 min *fire-resistance rating*.

**9.10.20.3. Floor Assemblies Between the First and Second Storey.** Except in a *dwelling unit*, a floor assembly in a *building in a camp for housing of workers* separating the first *storey* and the second *storey* shall be constructed as a *fire separation* having not less than a 30 min *fire-resistance rating*.

**9.10.20.4. Walkways Connecting Buildings.** Walkways of *combustible construction* connecting *buildings* shall be separated from each connected *building* by a *fire separation* having not less than a 45 min *fire-resistance rating*.

**9.10.20.5. Spatial Separations.** *Buildings* in a *camp for housing of workers* shall be separated from each other by a distance of not less than 10 m unless otherwise permitted in Subsection 9.10.14.

**9.10.20.6. Flame Spread Ratings**

(1) Except in *dwelling units* and except as provided in Sentence (2), the surface *flame-spread rating* of wall and ceiling surfaces in corridors and *walkways*, exclusive of doors, shall not exceed 25 over not less than 90 per cent of the exposed surface area and not more than 150 over the remaining surface area.

(2) Except within *dwelling units*, corridors that provide *access to exit* from sleeping rooms and having a *fire-resistance rating* of not less than 45 min shall have a *flame-spread rating* conforming to the appropriate requirements in Subsection 9.10.6.

**9.10.20.7. Smoke Detectors.** Except in *dwelling units*, corridors providing *access to exit* from sleeping rooms in every *building in a camp for housing of workers* with sleeping accommodation for more than 10 persons shall have a *smoke detector* connected to the *building alarm system*.

**9.10.20.8. Portable Fire Extinguishers.** Each *building in a camp for housing of workers* shall be provided with portable fire extinguishers in conformance with the provisions of the Ontario Fire Code made under the Fire Marshals Act.

**9.10.20.9. Hose Stations**

(1) Every *building in a camp for housing of workers* providing sleeping accommodation for more than 30 persons shall be provided with a hose station that is protected from freezing and equipped with a hose of sufficient length so that every portion of the *building* is within the range of a hose stream.

(2) Hose stations required in Sentence (1) shall be located near an *exit*.

(3) Hoses referred to in Sentence (1) shall be not less than 19 mm inside diam and shall be connected to a central water supply or to a storage tank having a capacity of at least 4 500 L with a pumping system capable of supplying a flow of at least 5 L/s at a gauge pressure of 300 kPa.

**Section 9.11 Sound Control****9.11.1. Sound Transmission Class Rating (Airborne Sound)**

**9.11.1.1. Determination of Sound Class Transmission Rating.** Sound transmission class ratings shall be determined in accordance with ASTM E413, "Classification for Rating Sound Insulation," using results from measurements in accordance with ASTM E90, "Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions" or with ASTM E336, "Measurement of Airborne Sound Insulation in Buildings".

**9.11.2. Required Sound Control Locations (Airborne Sound)****9.11.2.1. Minimum Sound Transmission Class Rating**

(1) Except as provided in Sentence (2), every *dwelling unit* and every suite in *hotels* and *motels*, shall be separated from every other space in a *building* in which noise may be generated, by a construction providing a sound transmission class rating of at least 50, measured in accordance with Subsection 9.11.1, or listed in Tables 9.10.3.A. and 9.10.3.B.

(2) Where a *dwelling unit* is adjacent to an elevator shaft or a refuse chute, the separating construction shall have a sound transmission class rating of at least 55, measured in accordance with Subsection 9.11.1, or listed in Table 9.10.3.A. and 9.10.3.B.

**9.11.2.2. Building Services in an Assembly.** *Building services located in an assembly required to have a sound transmission class rating shall be installed in a manner that will not decrease the required rating of the assembly.*

**Section 9.12 Excavation**

**9.12.1. General**

**9.12.1.1. Removal of Topsoil and Organic Matter**

- (1) The topsoil and vegetable matter in all unexcavated areas under a *building* shall be removed.
- (2) In localities where termites are known to occur, all stumps, roots and other wood debris shall be removed from the soil to a minimum depth of not less than 300 mm in unexcavated areas under a *building*.
- (3) The bottom of every *excavation* shall be free of all organic material.

**9.12.1.2. Standing Water.** *Excavations shall be kept free of standing water.*

**9.12.1.3. Protection from Freezing.** The bottom of *excavations* shall be kept from freezing throughout the entire construction period.

**9.12.1.4. Precautions During Excavation**

- (1) Every *excavation* shall be undertaken in such a manner to prevent damage to adjacent property, existing structures, utilities, roads and sidewalks at all stages of construction.
- (2) Material shall not be placed nor shall equipment be operated or placed in or adjacent to an *excavation* in a manner that may endanger the integrity of the *excavation* or its supports.

**9.12.2. Depth**

**9.12.2.1. Excavation to Undisturbed Soil.** *Excavations for foundations shall extend to undisturbed soil.*

**9.12.2.2. Minimum Depth of Foundations**

- (1) Except as provided in Sentences (4) and (5), the minimum depth of *foundations* below finished ground level shall conform to Table 9.12.2.A.

**Table 9.12.2.A.**  
Forming Part of Sentence 9.12.2.2.(2)

Minimum Depths of Foundation				
Type of Soil	Foundation Containing Heated Basement or Crawl Space		Foundation Containing No Heated Space	
	Good Soil Drainage to at Least the Depth of Frost Penetration	Poor Soil Drainage	Good Soil Drainage to at Least the Depth of Frost Penetration	Poor Soil Drainage
Rock	No limit	No limit	No limit	No limit
Coarse grained soils	No limit	No limit	No limit	Below the depth of frost penetration
Silt	No limit	No limit	Below the depth of frost penetration	Below the depth of frost penetration
Clay or soils not clearly defined	1.2 m	1.2 m	1.2 but not less than the depth of frost penetration	1.2 but not less than the depth of frost penetration
Column 1	2	3	4	5

- (2) The minimum depth of *foundations* for exterior concrete steps with more than 2 risers shall conform to Sentences (1) to (5).

- (3) Concrete steps with 1 and 2 risers are permitted to be laid on ground level.



(4) The *foundation* depths required in Sentence (1) are permitted to be decreased where experience with local *soil* conditions shows that lesser depths are satisfactory, or where the *foundation* is designed for lesser depths.

(5) The *foundation* depths required in Sentence (1) do not apply to *foundations* for *buildings* of other than masonry or masonry veneer construction

- (a) whose superstructure will not be damaged by differential *soil* movement caused by *frost action*, or
- (b) used as accessory *buildings* of not more than 1 *storey* in *building height* and not more than 50 m<sup>2</sup> in *building area*.

### 9.12.3. Backfill

**9.12.3.1. Placement of Backfill.** Backfill shall be placed to avoid damaging the *foundation* wall, the drainage tile, externally applied thermal insulation, waterproofing and dampproofing of the wall.

**9.12.3.2. Grading of Backfill.** Backfill shall be graded to prevent drainage towards the *foundation* after settling.

**9.12.3.3. Deleterious Debris and Boulders.** Backfill within 600 mm of the *foundation* shall be free of deleterious debris and boulders larger than 250 mm in diam.

**9.12.3.4. Removal of Debris.** All wood scraps and forms shall be removed from around the *foundations* before backfilling and from under exterior steps or porches before construction is completed.

**9.12.3.5. Lateral Support of Foundation Wall.** Where the height of *foundation* wall is such that lateral support is required, or where the required concrete strength of the wall has not been reached, the wall shall be braced or laterally supported before backfilling.

### 9.12.4. Trenches Beneath Footings

**9.12.4.1. Compacting or Filling With Concrete.** The *soil* in trenches beneath footings for sewers and water-mains shall be compacted by tamping up to the level of the footing base, or shall be filled with concrete having a strength not less than 10 MPa to support the footing.

## Section 9.13 Waterproofing and Dampproofing

### 9.13.1. General

#### 9.13.1.1. Required Waterproofing

(1) Where hydrostatic pressure occurs, floors on ground and exterior surfaces of walls below ground level shall be waterproofed.

(2) Roofs of underground structures shall be waterproofed to prevent the entry of water into the structure.

#### 9.13.1.2. Required Dampproofing

(1) Where hydrostatic pressure does not occur and the exterior finished ground level is at a higher elevation than the ground level inside the *foundation* walls, exterior surfaces of *foundation* walls below ground level shall be dampproofed.

(2) Reserved.

#### 9.13.1.3. Standards for Application

(1) The method of application of all bituminous waterproofing and dampproofing materials shall conform to

- (a) CGSB 37-GP-3M, "Application of Emulsified Asphalts for Dampproofing or Waterproofing",
- (b) CGSB 37-GP-12Ma, "Application of Unfilled Cutback Asphalt for Dampproofing", or
- (c) CGSB 37-GP-22M, "Application of Unfilled Cutback Tar Foundation Coating for Dampproofing".

### 9.13.2. Material

#### 9.13.2.1. Material Standards

(1) Materials used for dampproofing or waterproofing shall conform to

- (a) CAN/CSGS 37.2-M, "Asphalt, Emulsified, Mineral Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings",



- (b) CGSB 37-GP-6Ma, "Asphalt, Cutback, Unfilled, for Dampproofing",
- (c) CGSB 37-GP-16M, "Asphalt, Cutback, Filled, for Dampproofing and Waterproofing",
- (d) CGSB 37-GP-18Ma, "Tar, Cutback, Unfilled, for Dampproofing",
- (e) CSA A123.4, "Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems", or
- (f) CAN2-51.34-M, "Vapour Barrier, Polyethylene Sheet, for Use in Building Construction."

### 9.13.3. Waterproofing of Walls

#### 9.13.3.1. Preparation of Surface

(1) Unit masonry walls to be waterproofed shall be parged on exterior surfaces below ground level with not less than 6 mm of mortar conforming to Section 9.20 and such parging shall be covered over the footing.

(2) Concrete walls to be waterproofed shall have all holes and recesses resulting from removal of form ties sealed with mortar or waterproofing material.

**9.13.3.2. Application of Waterproofing Membranes.** Concrete or unit masonry walls to be waterproofed shall be covered with not less than 2 layers of bitumen-saturated membrane, with each layer being cemented in place with bitumen and coated over-all with a heavy coating of bitumen.

### 9.13.4. Waterproofing of Floors

**9.13.4.1. Basement Floors.** *Basement* floors to be waterproofed shall have a system of membrane waterproofing provided between 2 layers of concrete, each of which shall be not less than 75 mm thick with the floor membrane mopped to the wall membrane to form a complete seal.

### 9.13.5. Dampproofing of Walls

#### 9.13.5.1. Preparation of Surface

(1) Unit masonry walls to be dampproofed shall be parged on the exterior face below ground level with not less than 6 mm of mortar conforming to Section 9.20, and shall be covered over the footing when the first course of block is laid.

(2) Concrete walls to be dampproofed shall have holes and recesses resulting from the removal of form ties sealed with cement mortar or dampproofing material.

**9.13.5.2. Application of Dampproofing Material.** Bituminous or other damp-proofing material shall be applied over the parging or concrete below ground level.

#### 9.13.5.3. Interior Dampproofing of Walls

(1) Where a separate interior cladding is applied to a concrete or unit masonry wall which is in contact with the *soil*, or where wood members are applied to such walls for the installation of insulation or finish, the interior surface of the *foundation* wall below ground level shall be dampproofed.

(2) The dampproofing required in Sentence (1) shall extend from the *basement* floor and shall terminate at ground level and no membrane shall be applied above ground level between the insulation and the *foundation* wall.

#### 9.13.5.4. Reserved.

**9.13.5.5. Dampproofing of Preserved Wood Foundation Walls.** Preserved wood *foundation* walls shall be dampproofed as described in CAN3-S406, "Construction of Preserved Wood Foundations".

### 9.13.6. Dampproofing of Slabs

**9.13.6.1. Location of Dampproofing.** When slabs are dampproofed, the dampproofing shall be installed below the slab, except that where a separate floor is provided over the slab, the dampproofing may be applied to the top of the slab.

#### 9.13.6.2. Dampproofing below the Slab

(1) When installed below the slab, dampproofing shall consist of polyethylene not less than 0.15 mm thick.

(2) Joints in dampproofing shall be lapped not less than 300 mm.

**9.13.6.3. Dampproofing above the Slab.** When installed above the slab, dampproofing shall consist of at least 2 mopped-on coats of bitumen, 0.05 mm polyethylene or other material providing equivalent performance.

9.13.6.4. Reserved.

9.13.6.5. Reserved.

9.13.6.6. Reserved.

#### Section 9.14 Drainage

##### 9.14.1. Scope

9.14.1.1. **Application.** This Section applies to subsurface drainage and to surface drainage.

9.14.1.2. **Crawl Spaces.** Drainage for crawl spaces shall conform to Section 9.18.

9.14.1.3. **Floor Slabs.** Drainage requirements beneath floor slabs shall conform to Section 9.16.

##### 9.14.2. General

###### 9.14.2.1. Foundation Wall Drainage

(1) Unless it can be shown to be unnecessary, drainage shall be provided at the bottom of every *foundation* wall that contains the *building* interior.

(2) Where mineral fibre insulation or crushed *rock* is provided adjacent to the exterior surface of a *foundation* wall, it shall extend to the footing level and facilitate drainage of ground water to the *foundation* drainage system.

(3) Where drainage is required in Sentence (1), the drainage shall conform to Subsection 9.14.3. or 9.14.4.

##### 9.14.3. Drainage Tile and Pipe

###### 9.14.3.1. Material Standards

(1) Drain tile and drain pipe for *foundation* drainage shall conform to

- (a) ASTM C4, "Clay Drain Tile",
- (b) ASTM C412-M, "Concrete Drain Tile",
- (c) ASTM C444-M, "Perforated Concrete Pipe Metric",
- (d) ASTM C700, "Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated",
- (e) CAN/CGSB 34.22-M, "Pipe, Asbestos Cement, Drain",
- (f) CGSB 41-GP-29Ma, "Tubing, Plastic, Corrugated, Drainage",
- (g) CSA B182.1, "Plastic Drain and Sewer Pipe and Pipe Fittings," or
- (h) CAN3-G401, "Corrugated Steel Pipe Products."

9.14.3.2. **Minimum Size.** Drain tile or pipe used for *foundation* drainage shall be not less than 100 mm in diam.

###### 9.14.3.3. Installation

(1) Drain tile or pipe shall be laid on undisturbed or well-compacted *soil* so that the top of the tile or pipe is below the bottom of the floor slab or crawl space.

(2) Drain tile or pipe with butt joints shall be laid with 6 mm to 10 mm open joints.

(3) The top half of joints referred to in Sentence (2) shall be covered with sheathing paper, 0.10 mm polyethylene or No.15 asphalt or tar-saturated felt.

(4) The top and sides of drain pipe or tile shall be covered with not less than 150 mm of crushed stone or other coarse clean granular material containing not more than 10 per cent of material that will pass a 4 mm sieve.

##### 9.14.4. Granular Drainage Layer

9.14.4.1. **Type of Granular Material.** Granular material used to drain the bottom of a *foundation* shall consist of a continuous layer of crushed stone or other coarse clean granular material containing not more than 10 per cent of material that will pass a 4 mm sieve.

9.14.4.2. **Installation.** Granular material described in Article 9.14.4.1. shall be laid on undisturbed or com-

pacted *soil* to a minimum depth of not less than 125 mm beneath the *building* and extend at least 300 mm beyond the outside edge of the footings.

**9.14.4.3. Grading.** The bottom of an *excavation* drained by a granular layer shall be graded so that the entire area described in Article 9.14.4.2. is drained to a sump conforming to Article 9.14.5.2.

**9.14.4.4. Wet Site Conditions.** Where because of wet site conditions *soil* becomes mixed with the granular drainage material, sufficient additional granular material shall be provided so that the top 125 mm is kept free of *soil*.

#### **9.14.5. Drainage Disposal**

**9.14.5.1. Drainage Disposal.** *Foundation* drains shall drain to a sewer, drainage ditch or dry well.

**9.14.5.2. Sump Pits.** Where gravity drainage is not practical, a covered sump with an automatic pump shall be installed to discharge the water into a sewer, drainage ditch or dry well.

#### **9.14.5.3. Dry Wells.**

(1) Dry wells may be used only when located in areas where the natural *groundwater* level is below the bottom of the dry well.

(2) Dry wells shall be not less than 5 m from the *building foundation* and located so that drainage is away from the *building*.

#### **9.14.6. Surface Drainage**

**9.14.6.1. Surface Drainage.** The *building* shall be located and the *building* site graded so that water will not accumulate at or near the *building* and will not adversely affect adjacent properties.

**9.14.6.2. Drainage away from Wells or Septic Disposal Beds.** Surface drainage shall be directed away from the location of a water supply well or septic tank disposal bed.

**9.14.6.3. Catch Basin.** Where runoff water from a driveway is likely to accumulate or enter a garage, a catch basin shall be installed to provide adequate drainage.

**9.14.6.4. Downspouts.** Where downspouts are provided and are not connected to a sewer, provisions shall be made to prevent *soil* erosion.

### **Section 9.15 Footings and Foundations**

#### **9.15.1. Scope**

##### **9.15.1.1. Application**

(1) Except as provided in Articles 9.15.1.2. and 9.15.1.3., this Section applies to poured-in-place concrete or unit masonry *foundation* walls and poured-in-place concrete footings on *soils* with an allowable bearing pressure of 75 kPa or greater for *buildings* of wood frame or masonry construction.

(2) Except as provided in Sentence (3) and (4), *foundations* for applications other than as described in Sentence (1) shall be designed in accordance with Section 9.4.

(3) Where a *foundation* is erected on filled ground, peat or sensitive clay, the footing sizes shall be designed in conformance with Section 4.2.

(4) For the purpose of Sentence (3), sensitive clay means the grain size of the majority of the particles is smaller than 0.002 mm, including leda clay.

**9.15.1.2. Permafrost.** *Buildings* erected on permafrost shall have *foundations* designed by a designer competent in this field in accordance with the appropriate requirements of Part 4.

##### **9.15.1.3. Wood Frame Foundations**

(1) *Foundations* of wood frame construction are permitted to be used provided they conform to Sentence (2) or (3).

(2) Except as provided in Sentence (3), wood frame *foundations* shall be designed in conformance with Part 4.

(3) Wood frame *foundations* need not conform to Sentence (2) provided such *foundations*, including their lateral supports, conform to CAN3-S406, "Construction of Preserved Wood Foundations".

(4) The *foundations* referred to in Sentence (3) shall be supported on *soil* having an allowable bearing pres-

sure of not less than 75 kPa and shall not be subjected to loads that exceed those determined from the design assumptions listed in Clause 1.1.2. of the Standard.

#### 9.15.2. General

**9.15.2.1. Concrete.** Concrete shall conform to Section 9.3.

**9.15.2.2. Concrete Block.** Concrete block shall be *loadbearing* type conforming to CAN3-A165.1, "Concrete Masonry Units" and shall have a compressive strength over the gross area of the block of at least 7.5 MPa for hollow units and 12.5 MPa for solid units.

**9.15.2.3. Unit Masonry Construction.** Mortar, mortar joints, corbelling and protection for unit masonry shall conform to Section 9.20.

#### 9.15.2.4. Pier Type Foundations

(1) Where pier type *foundations* are used, the piers shall be designed to support the applied loads from the superstructure.

(2) Where piers are used as a *foundation* system in a *building* of 1 storey in *building height*, the piers shall be installed to support the principal framing members and shall be spaced not more than 3.5 m apart along the framing, unless the piers and their footings are designed for larger spacings.

(3) The height of piers described in Sentence (2) shall not exceed 3 times their least dimension at the base of the pier.

(4) Where concrete block is used for piers described in Sentence (2), they shall be laid with cores placed vertically, and when the width of the *building* is 4.3 m or less, placed with their longest dimension at right angles to the longest dimension of the *building*.

#### 9.15.3. Footings

**9.15.3.1. Footings Required.** Footings shall be provided under walls, pilasters, columns, piers, fireplaces and *chimneys* that bear on *soil* or *rock*, except that footings may be omitted under piers or monolithic concrete walls if the safe *loadbearing* capacity of the *soil* or *rock* is not exceeded.

**9.15.3.2. Support of Footings.** Footings shall rest on undisturbed *soil*, *rock* or compacted granular *fill*.

#### 9.15.3.3. Footing Sizes

(1) Except as provided in Sentences (2) to (6), the minimum footing size shall be as shown in Table 9.15.3.A. provided the length of supported joists does not exceed 4.9 m and the design *live load* on any floor supported by the footing does not exceed 2.4 kPa. (Table 4.1.6.A.).

(2) Where the design *live load* exceeds 2.4 kPa or the length of the supported joists exceeds 4.9 m, footings shall be designed in accordance with Section 4.2.

(3) The strip footing sizes for exterior walls shown in Column 2 of Table 9.15.3.A. shall be increased by 65 mm for each *storey* of masonry veneer over wood frame construction supported by the *foundation* wall.

(4) The strip footing sizes for exterior walls shown in Column 2 of Table 9.15.3.A. shall be increased by 130 mm for each *storey* of masonry construction supported by the *foundation* wall.

(5) The minimum strip footing sizes for interior walls shown in Column 3 of Table 9.15.3.A. shall be increased by 100 mm for each *storey* of masonry construction supported by the footing.

(6) The footing area for column spacings other than shown in Table 9.15.3.A. shall be adjusted in proportion to the distance between columns.



**Table 9.15.3.A.**  
Forming Part of Article 9.15.3.3.

Minimum Footing Sizes			
No. of Floors Supported	Minimum Width of Strip Footings, mm		Minimum Footing Area for Columns Spaced 3 m o.c., (1) m <sup>2</sup>
	Supporting Exterior Walls	Supporting Interior Walls	
1	250 (2)	200 (3)	0.4
2	350 (2)	350 (3)	0.75
3	450 (2)	500 (3)	1.0
Column 1	2	3	4

**Notes to Table 9.15.3.A.:**

- (1) See Sentence 9.15.3.3.(6)  
 (2) See Sentence 9.15.3.4.(3)  
 (3) See Sentence 9.15.3.3.(5)

**9.15.3.4. High Water Table.** Where a *foundation* rests on gravel, sand or silt in which the water table level is less than the width of the footings below the bearing surface, the footing width shall be not less than twice the width required by Article 9.15.3.3.

**9.15.3.5. Non-Loadbearing Walls.** Footings for interior non-loadbearing masonry walls shall be at least 200 mm wide for walls up to 5.5 m high and shall be increased by 100 mm for each additional 2.7 m of height.

**9.15.3.6. Thickness.** Footings shall be at least 100 mm in thickness except when greater thicknesses are required because of the projection of the footing beyond the supported element.

**9.15.3.7 Footing Projection.** The projection of an unreinforced footing beyond the supported element shall be not greater than the thickness of the footing.

**9.15.3.8. Step Footings.** When step footings are constructed, the vertical rise between horizontal portions shall not exceed 600 mm for firm *soils* and 400 mm for sand or gravel. The horizontal distance between risers shall not be less than 600 mm.

**9.15.4. Foundation Walls**

**9.15.4.1. Foundation Wall Thickness.** Where average stable *soils* are encountered, the thickness of *foundation* walls subject to lateral earth pressure shall conform to Table 9.15.4.A. for walls not exceeding 2.5 m in unsupported height.

**Table 9.15.4.A.**  
Forming Part of Article 9.15.4.1.

Thickness of Foundation Walls			
Type of Foundation Wall	Minimum Wall Thickness, mm	Maximum Height of Finish Grade Above Basement Floor or Inside Grade	
		Foundation Wall Laterally Unsupported At the Top, (1) m	Foundation Wall Laterally Supported At the Top, (1) m
Solid concrete (15 MPa min. strength)	150	0.8	1.5
	200	1.2	2.1
	250	1.4	2.3
	300	1.5	2.3
Solid concrete (20 MPa min. strength)	150	0.8	1.8
	200	1.2	2.3
	250	1.4	2.3
	300	1.5	2.3
Unit masonry	140	0.6	0.8
	190	0.9	1.2
	240	1.2	1.8
	290	1.4	2.2
Column 1	2	3	4

**Note to Table 9.15.4.A.:**

(1) See Article 9.15.4.2.

#### 9.15.4.2. Lateral Support

(1) For the purposes of Article 9.15.4.1., *foundation* walls shall be considered laterally supported at the top if such walls support solid masonry superstructure or if the floor joists are embedded in the top of the *foundation* walls.

(2) *Foundation* walls shall also be considered to be supported at the top if the floor system is anchored to the top of the *foundation* walls with anchor bolts, in which case the joists may run either parallel or perpendicular to the *foundation* wall.

(3) When a *foundation* wall contains an opening more than 1.2 m in length or contains openings in more than 25 per cent of its length, that portion of the wall beneath such openings shall be considered laterally unsupported, unless the wall around the opening is reinforced to withstand the earth pressure.

(4) When the length of solid wall between windows is less than the average length of the windows, the combined length of such windows shall be considered as a single opening for the purposes of Sentence (3).

**9.15.4.3. Extension above Ground Level.** Exterior *foundation* walls shall extend not less than 150 mm above finished ground level.

#### 9.15.4.4. Reduction in Thickness

(1) Where the top of a *foundation* wall is reduced in thickness to permit the installation of floor joists, the reduced section shall be not more than 350 mm and not less than 90 mm thick.

(2) Where the top of a *foundation* wall is reduced in thickness to permit the installation of a masonry exterior facing, the reduced section shall be not less than 90 mm thick and tied to the facing material with metal ties conforming to Sentence 9.20.9.4.(3) spaced not more than 200 mm o.c. vertically and 900 mm o.c. horizontally.

(3) The space between wall and facing described in Sentence (2) shall be filled with mortar.

**9.15.4.5. Corbelling.** Corbelling of *foundation* walls supporting cavity walls shall conform to Article 9.20.12.2.

**9.15.4.6. Crack Control Joints**

(1) Crack control joints shall be provided in *foundation* walls more than 25 m long at intervals of not more than 15 m.

(2) Joints required in Sentence (1) shall be designed to resist moisture penetration and shall be keyed to prevent relative displacement of the wall portions adjacent to the joint.

**9.15.4.7. Interior Masonry Walls.** Interior masonry *foundation* walls not subject to lateral earth pressure shall conform to Section 9.20.

**9.15.5. Joist and Beam Support****9.15.5.1. Support of Floor Joists**

(1) Except as permitted in Sentence (2), *foundation* walls of hollow unit masonry supporting floor joists shall be capped with at least 50 mm of solid masonry or concrete, or have the top course filled with mortar or concrete.

(2) Capping required in Sentence (1) is permitted to be omitted in localities where termites are not known to occur when the joists are supported on a wood plate not less than 38 mm by 89 mm where the siding overlaps the *foundation* wall not less than 12 mm.

**9.15.5.2. Support of Beams**

(1) Not less than a 190 mm depth of solid masonry shall be provided beneath beams supported on masonry.

(2) Where the beam referred to in Sentence (1) is supported below the top of the *foundation* walls, the ends of such beams shall be protected from the weather.

**9.15.5.3. Pilasters**

(1) Pilasters shall be provided under beams that frame into 140 mm unit masonry *foundation* walls.

(2) Pilasters required in Sentence (1) shall be not less than 90 mm by 290 mm and shall be bonded or tied into the wall.

(3) The top 200 mm of pilasters required in Sentence (1) shall be solid.

**9.15.6. Parging and Finishing**

**9.15.6.1. Foundation Walls below Ground.** Concrete block *foundation* walls shall be parged on the exterior face below ground level as required in Section 9.13.

**9.15.6.2. Foundation Walls above Ground.** Exterior surfaces of concrete block *foundation* walls above ground level shall have tooled joints, or shall be rendered, parged or otherwise suitably finished.

**9.15.6.3. Form Ties.** All form ties shall be removed at least flush with the concrete surface.

**Section 9.16 Slabs-on-Ground****9.16.1. Scope**

**9.16.1.1. Application.** This Section applies to concrete slabs supported on ground or granular fill which do not provide structural support for the superstructure.

**9.16.1.2. Structural Floor Slabs.** Floor slabs that support loads from the superstructure shall be designed in conformance with Part 4.

**9.16.1.3. Dampproofing and Waterproofing.** Dampproofing and waterproofing shall conform to Section 9.13.

**9.16.2. Granular Material Beneath Slabs****9.16.2.1. Granular Fill**

(1) Except for slabs in garages, not less than 100 mm of coarse clean granular material containing not more than 10 per cent of material that will pass a 4 mm sieve shall be placed beneath slabs in *dwelling units*.

(2) Any other *fill* beneath the top portion of coarse clean granular material referred to in Sentence (1) shall be compacted.

**9.16.3. Drainage**

**9.16.3.1. Prevention of Water Accumulation.** Except as provided in Article 9.16.3.2. or where it can be shown

to be unnecessary, the accumulation of water underneath a slab-on-ground shall be prevented by grading or drainage.

**9.16.3.2. Hydrostatic Pressure.** Where *ground water levels* may cause hydrostatic pressure beneath the slab, the slab shall be designed to resist such pressures.

**9.16.3.3. Floor Drains.** When floor drains are installed the floor surface shall be sloped so that no water can accumulate.

#### **9.16.4. Concrete**

##### **9.16.4.1. Floor Finish**

- (1) The finished surface of concrete slabs shall be trowelled smooth and even.
- (2) Dry cement shall not be added to the floor surfaces to absorb surplus water.

##### **9.16.4.2. Compressive Strength**

(1) Where dampproofing is not provided the concrete used for slabs-on-ground shall have a compressive strength of not less than 25 MPa after 28 days.

(2) Where dampproofing is provided as described in Subsection 9.13.6., the concrete used for slabs-on-ground shall have a compressive strength of 15 MPa after 28 days.

**9.16.4.3. Thickness.** Concrete slabs shall not be less than 75 mm thick exclusive of concrete topping.

**9.16.4.4. Bond Break.** A bond-breaking material shall be placed between the slab and footings or *rock*.

#### **9.16.5. Joints**

**9.16.5.1. Joints and Penetrations in Slabs.** In locations where termites are known to occur, joints between slabs-on-ground and *foundation* walls and spaces around pipes, conduit or ducts that penetrate such slabs shall be filled with bitumen.

### **Section 9.17 Columns**

#### **9.17.1. Scope**

##### **9.17.1.1. Application**

(1) This Section applies to columns used to support carport roofs floors where the length of joists carried by such beams does not exceed 5 m and the *live load* on any floor does not exceed 2.4 kPa.

(2) Columns for applications other than as described in Sentence (1) shall be designed in accordance with Part 4.

#### **9.17.2. General**

**9.17.2.1. Location.** Columns shall be centrally located on a footing conforming to Section 9.15.

**9.17.2.2. Fastening.** Columns shall be securely fastened to the supported member to prevent lateral movement.

#### **9.17.3. Steel Columns**

##### **9.17.3.1. Size and Thickness**

(1) Except as permitted in Sentence (2), steel pipe columns shall have an outside diameter of 73 mm and a wall thickness of 4.76 mm.

(2) Columns of sizes other than as specified in Sentence (1) may be used where the *loadbearing* capacities are shown to be adequate.

##### **9.17.3.2. End Bearing Plates**

(1) Except as permitted in Sentence (2), steel columns shall be fitted with not less than 100 mm by 100 mm by 6.35 mm thick steel plates at each end, and where the column supports a wooden beam, the top plate shall extend across the full width of the beam.

(2) The top plate required in Sentence (1) may be omitted where a column supports a steel beam and provision is made for the attachment of the column to the beam.



**9.17.3.3. Paint.** Steel columns shall be treated on the outside surface with not less than 1 coat of rust-inhibitive paint.

**9.17.3.4. Adjustable Steel Columns.** Adjustable steel columns shall conform to CAN/CGSB 7.2-M, "Adjustable Metal Columns."

#### **9.17.4. Wood Columns**

##### **9.17.4.1. Column Sizes**

(1) The width or diameter of a wood column shall be not less than the width of the supported member.

(2) Except as provided in Article 9.35.4.2., columns shall be not less than 184 mm for round columns and 140 mm by 140 mm for rectangular columns, unless calculations are provided to show that lesser sizes are adequate.

##### **9.17.4.2. Materials**

(1) Wood columns shall be either solid, glue-laminated or built-up.

(2) Built-up columns shall consist of not less than 38 mm thick full-length members bolted together with not less than 9.52 mm diam bolts spaced not more than 450 mm o.c., or nailed together with not less than 76 mm nails spaced not more than 300 mm o.c.

(3) Glued-laminated columns shall conform to Section 4.3.

**9.17.4.3. Columns in Contact with Concrete.** Wood columns shall be separated from concrete in contact with the ground by 0.05 mm polyethylene film or Type S roll roofing.

##### **9.17.4.4. Wood Column Termite Protection**

(1) Where termites are known to exist, exterior wood columns such as porch supports shall be,

(a) pressure treated with a chemical that is toxic to such termites, in accordance with Article 9.3.2.9; or

(b) supported on non-cellulosic material extending at least 150 mm above grade and located at least 50 mm from the exterior wall of an adjacent *building*.

#### **9.17.5. Unit Masonry Columns**

**9.17.5.1. Materials.** Unit masonry columns shall be built of *loadbearing* masonry units.

**9.17.5.2. Sizes.** Unit masonry columns shall be at least 290 mm by 290 mm or 240 mm by 380 mm in size.

#### **9.17.6. Solid Concrete Columns**

**9.17.6.1. Materials.** Concrete shall conform to Section 9.3.

**9.17.6.2. Sizes.** Concrete columns shall be not less than 200 mm by 200 mm for rectangular columns and 230 mm diam for circular columns.

### **Section 9.18 Crawl Spaces**

#### **9.18.1. General**

**9.18.1.1. Application.** In this Section a crawl space refers to an enclosed space between the underside of a floor assembly and the ground cover directly below, with a clearance less than 1.8 m in height.

**9.18.1.2. Foundations.** *Foundations* enclosing crawl spaces shall conform to Section 9.15.

**9.18.1.3. Insulation.** Insulation shall conform to Section 9.25.

**9.18.1.4. Heating.** Heating of crawl spaces shall conform to Section 9.33.

#### **9.18.2. Access**

##### **9.18.2.1. Access Openings**

(1) An access opening of not less than 500 mm by 700 mm shall be provided to each crawl space where the crawl space serves a single *dwelling unit*, and not less than 550 mm by 900 mm for other crawl spaces.

(2) Access openings shall be fitted with a door or hatch, except when the access opening into the crawl space is from the adjacent *basement* and provides ventilation to the crawl space.

### 9.18.3. Ventilation

**9.18.3.1. General.** Crawl spaces shall be ventilated by natural or mechanical means.

**9.18.3.2. Natural Ventilation.** Except as otherwise permitted in Article 9.18.3.5., natural ventilation for crawl spaces shall be provided to the outside air by not less than 0.1 m<sup>2</sup> of unobstructed vent area for every 50 m<sup>2</sup> of floor area.

**9.18.3.3. Design of Vents.** Vents for crawl spaces shall be designed to prevent the entry of snow, rain and insects, and shall be provided with tight-fitting covers to prevent air leakage in winter if the crawl space is heated.

**9.18.3.4. Distribution of Vents.** Vents for crawl spaces shall be uniformly distributed on opposite sides of the building.

**9.18.3.5. Ventilation to the Outside Not Required.** Ventilation to the outside air is not required when the crawl space is used as a warm-air *plenum*, or if the crawl space is vented to an adjacent *basement* with an opening conforming to Article 9.18.3.2.

### 9.18.4. Clearance

**9.18.4.1. Ground Clearance.** The ground level in a crawl space shall be not less than 300 mm below the level of all joists and beams, except that in localities where termites are known to occur, the clearance shall be not less than 450 mm, unless the joists are pressure treated with a chemical that is toxic to termites.

**9.18.4.2. Access Way to Services.** Where equipment requiring service such as plumbing cleanouts, traps and burners is located in crawl spaces, an access way with a height and width of not less than 600 mm shall be provided from the access door to the equipment and for a distance of 900 mm on the side or sides of the equipment to be serviced.

### 9.18.5. Drainage

#### 9.18.5.1. Floor and Access Trench Slope

(1) Unless *groundwater levels* and site conditions are such that water will not accumulate in the crawl space, the crawl space floor and access trenches shall be sloped to drain to a sewer, ditch or dry well.

(2) Drains shall conform to Section 9.14.

### 9.18.6. Ground Cover

#### 9.18.6.1. Materials and Installation

(1) A ground cover consisting of not less than 50 mm of asphalt or 10 MPa portland cement concrete, or Type S roll roofing or 0.10 mm polyethylene shall be provided in every crawl space.

(2) Joints in sheet-type ground cover required in Sentence (1) shall be lapped not less than 100 mm and weighted down.

### 9.18.7. Fire Protection

#### 9.18.7.1. Crawl Spaces as Warm Air Plenums

(1) Crawl spaces used as warm-air plenums in *buildings* of residential occupancy shall be restricted to 1-storey portions of *dwelling units*.

(2) Enclosing material in crawl spaces described in Sentence (1) including insulation shall have a surface *flame-spread rating* not greater than 150.

(3) *Combustible* ground cover used as enclosing material in Sentence (2) shall be covered with *noncombustible* material.

## Section 9.19 Roof Spaces

### 9.19.1. Ventilation

#### 9.19.1.1. Required Ventilation

(1) Except as provided in Article 9.19.1.2., every roof space or *attic* above an insulated ceiling shall be ventilated with openings to the exterior to provide unobstructed vent area of not less than 1/300 of the insulated ceiling area.

(2) Vents required in Sentence (1) may be roof type, eave type, gable-end type or any combination thereof, and shall be uniformly distributed on opposite sides of the *building*.

(3) Vents required in Sentence (1) shall be designed to prevent the entry of rain, snow and insects.

(4) The unobstructed vent area shall be determined in conformance with CAN3-A93, "Natural Airflow Ventilators for Buildings".

#### 9.19.1.2. Low Slope Roofs

(1) Where insulation is placed below the roof sheathing in roofs having a slope of less than 1 in 6 or in roofs that are constructed with roof joists, the unobstructed vent area shall be not less than 1/150 of the insulated ceiling area.

(2) Vents described in Sentence (1) shall be uniformly distributed to ventilate each roof space.

#### 9.19.1.3. Cross Purlins

(1) Except as provided in Sentence (2), cross purlins not less than 38 mm by 38 mm shall be applied to the top of the roof joists where the roof does not incorporate an attic space, and the top of the insulation shall be not less than 25 mm below the top of the roof joists.

(2) Cross purlins required by Sentence (1) may be omitted where the roof slope is 1 in 6 or steeper provided the roof framing members run in the same direction as the roof slope and a minimum clearance of 75 mm is maintained between the underside of the roof sheathing and the top of the insulation throughout the length of the roof joist.

(3) Vents in roofs described in Sentence (2) shall be distributed so that approximately 50 per cent of the required vent area is located near the lower part of the roof and approximately 50 per cent of the required vent area is near the ridge.

**9.19.1.4. Obstruction by Insulation.** Ceiling insulation shall be installed in a manner which will not restrict a free flow of air through roof vents or through any portion of the roof space or attic.

#### 9.19.1.5. Mansard or Gambrel Roof

(1) The lower portion of a mansard or gambrel style roof need not be ventilated.

(2) The upper portion of roofs described in Sentence (1) shall be ventilated in conformance with the requirements in Articles 9.19.1.1. to 9.19.1.4., except that not less than 50 per cent of the required vent opening shall be provided near the junction of the upper and lower portions.

### 9.19.2. Access

#### 9.19.2.1. Access to Attic Space

(1) Every attic space shall be provided with an access stair or shall have a hatchway where

- (a) the area of the attic space is more than 10 m<sup>2</sup>, and
- (b) the attic space is more than 600 mm at the highest point, measured from the top of the ceiling joists to the underside of the rafters.

(2) Where access required in Sentence (1) is provided by a hatchway, such opening shall be

- (a) not less than 500 mm by 700 mm where the hatchway serves not more than 1 *dwelling unit*, or
- (b) not less than 550 mm by 900 mm for all other attic hatchways.

(3) The hatchway described in Sentence (2) shall be fitted with a door or cover.

(4) The attic space above the access required in Sentence (1) shall be not less than 600 mm.

### Section 9.20 Above-Grade Masonry

#### 9.20.1. Scope

##### 9.20.1.1. Application

(1) This Section applies to unreinforced masonry and masonry veneer in which the wall height above the *foundation* wall does not exceed 11 m, and in which the roof or floor system above the first *storey* is not of concrete construction.

(2) For *buildings* other than described in Sentence (1), or where the masonry is designed on the basis of design loads and allowable stresses, Subsection 4.3.2. shall apply.

#### 9.20.1.2. Earthquake Reinforcement

(1) In velocity-related or acceleration-related seismic zones, of 4 or greater, *loadbearing* elements of masonry *buildings* more than 1 *storey* in *building height* shall be reinforced with at least the minimum amount of reinforcement as required in Subsection 9.20.15.

(2) In velocity-related or acceleration-related seismic zones, of 2 and 3, *loadbearing* elements of masonry *buildings* 3 *storeys* in *building height* shall be reinforced with at least the minimum amount of reinforcement as required in Subsection 9.20.15.

#### 9.20.2. Masonry Units

##### 9.20.2.1. Masonry Unit Standards

(1) Masonry units shall comply with

- (a) CAN/CSA-A82.1, "Burned Clay Brick (Solid Masonry Units Made from Clay or Shale),"
- (b) CSA A82.3, "Calcium Silicate (Sand-Lime) Building Brick,"
- (c) CSA A82.4, "Structural Clay Load-Bearing Wall Tile,"
- (d) CSA A82.5, "Structural Clay Non-Load-Bearing Tile,"
- (e) CAN3-A165.1, "Concrete Masonry Units,"
- (f) CAN3-A165.2, "Concrete Brick Masonry Units,"
- (g) CAN3-A165.3, "Prefaced Concrete Masonry Units,"
- (h) CAN3-A165.4, "Autoclaved Cellular Units,"
- (i) ASTM C126, "Ceramic Glazed Structural Clay Facing Brick, and Solid Masonry Units," or
- (j) ASTM C212, "Structural Clay Facing Tile."

**9.20.2.2. Used Brick.** Used bricks shall be free of old mortar, soot or other surface coating and shall conform to Article 9.20.2.1.

**9.20.2.3. Glass Blocks.** Glass blocks shall not be used as *loadbearing* units or in the construction of fireplaces or *chimneys*.

**9.20.2.4. Foamed Concrete.** Masonry made with foamed concrete shall not be used in contact with the *soil* or exposed to the weather.

**9.20.2.5. Stone.** Stone shall be sound and durable.

##### 9.20.2.6. Concrete Units Exposed to the Weather

(1) *Loadbearing* concrete units or non-*loadbearing* concrete units exposed to the weather shall have weight and water absorption characteristics conforming to Classes A, B or C, described in CAN3-A165.1, "Concrete Masonry Units".

(2) Where cellular concrete blocks are used in situations described in Sentence (1), allowance shall be made in the design for the shrinkage characteristics of the units to be used.

**9.20.2.7. Compressive Strength.** The compressive strength of masonry units shall conform to Table 9.20.2.A.



Table 9.20.2.A.  
Forming Part of Article 9.20.2.7.

COMPRESSIVE STRENGTH OF MASONRY		
Type of Unit	Minimum Compressive Strength Over Net Area (MPa)	
	Exposed to Weather	Not Exposed to Weather
Solid or hollow Concrete block	15	10
Solid <i>loadbearing</i> cellular units	Not Permitted	5
Solid <i>non-loadbearing</i> cellular units	Not Permitted	2
Column 1	2	3

9.20.3. Mortar

9.20.3.1. Mortar Materials

- (1) Cementitious materials and aggregates for mortar shall comply with
  - (a) CAN3-A5, "Portland Cements,"
  - (b) CAN3-A8, "Masonry Cement,"
  - (c) CSA A82.22, "Gypsum Plasters,"
  - (d) CSA A82.56, "Aggregate for Masonry Mortar,"
  - (e) ASTM C5, "Quicklime for Structural Purposes," or
  - (f) ASTM C207, "Hydrated Lime for Masonry Purposes."
- (2) Water and aggregate shall be clean and free of significant amounts of deleterious materials.
- (3) Lime used in mortar shall be hydrated.
- (4) If lime putty is used in mortar, it shall be made by slaking quicklime in water for not less than 24 h or soaking hydrated lime in water for not less than 12 h.

9.20.3.2. Mortar Mixes

- (1) Except as provided in Sentences (3) and (4), mortar mixes shall conform to Table 9.20.3.A.
- (2) Mortar containing portland cement shall not be used later than 2.5 h after mixing.
- (3) Mortar for sand-lime brick and concrete brick may consist of 1 part masonry cement to not less than 2.5 or not more than 3 parts of aggregate by volume in addition to those mixes permitted in Table 9.20.3.A.

**Table 9.20.3.A.**  
Forming Part of Articles 9.20.3.2.

Mortar Mix Proportions (By Volume)				
Permissible Use of Mortar	Portland Cement	Masonry Cement (Type H)	Lime	Aggregate
All locations but not for use with sand-lime or concrete brick	$\frac{1}{2}$ to 1 1	1 —	— $\frac{1}{4}$ to $\frac{1}{2}$	Not less than $2\frac{1}{4}$ and not more than 3 times the sum of the the volumes of the cement and lime
All locations except <i>foundation</i> walls and piers, but not for use with sand-lime or concrete brick	— 1	1 —	— $\frac{1}{2}$ to $1\frac{1}{4}$	
All locations except <i>loadbearing</i> walls of hollow units, parapet walls and <i>chimneys</i>	1	—	$1\frac{1}{4}$ to $2\frac{1}{2}$	
All non- <i>loadbearing</i> interior walls and all <i>loadbearing</i> walls of solid units, except <i>foundation</i> walls, parapet walls and <i>chimneys</i>	1 —	— —	$2\frac{1}{4}$ to 4 1	
Column 1	2	3	4	5

(4) Mortar for glass block shall consist of 1 part portland cement, 1 part hydrated lime to not more than 4 parts aggregate by volume.

#### 9.20.4. Mortar Joints

##### 9.20.4.1. Thickness

- (1) Maximum average joint thickness shall be 12 mm.
- (2) Maximum thickness of an individual joint shall be 20 mm.

**9.20.4.2. Solid Masonry Units.** Solid masonry units shall be laid with full head and bed joints.

**9.20.4.3. Hollow Masonry Units.** Hollow masonry units shall be laid with mortar applied to head and bed joints of both inner and outer face shells.

#### 9.20.5. Masonry Support

##### 9.20.5.1. Masonry Support

(1) All masonry shall be supported on masonry, concrete or steel, except that masonry veneer walls may be supported on *foundations* of wood frame constructed in conformance with Sentence 9.15.1.3.(3).

(2) Every masonry wall shall be at least as thick as the wall it supports, except as otherwise permitted in Article 9.20.12.2.

##### 9.20.5.2. Lintels or Arches

(1) Masonry over openings shall be supported by steel, reinforced concrete or masonry lintels or arches designed to support the imposed load.

(2) Except as permitted in Sentence (3), steel angle lintels supporting masonry above openings shall conform to Table 9.20.5.A.

(3) Steel angle lintels supporting masonry veneer above openings shall conform to Table 9.20.5.B.

Table 9.20.5.A.  
Forming Part of Sentence 9.20.5.2.(2)

Loose Steel Lintels for Masonry - No. & Size of Angles Required (7)										
Clear Span (1)(3)	Exterior Angles		Wall Thick-ness	Interior Angles						
	for Brick	for Stone		Maximum Floor Loads per Metre of Span in Newtons (2) (4) (5)						
	100 mm	100 mm + 50 mm stone facing								
	No Floor Load			None	3 650	7 300	10 950	14 600	18 250	21 900
1 200 mm or less	L-90 × 90 × 6	L-125 × 90 × 8	203	L-90 × 90 × 6	L-90 × 90 × 6	L-90 × 90 × 8	L-100 × 90 × 8	L-125 × 90 × 8	L-125 × 90 × 10	L-125 × 90 × 13
			305	2Ls-90 × 90 × 8	2Ls-90 × 90 × 6	2Ls-90 × 90 × 8	2Ls-90 × 90 × 8	2Ls-90 × 90 × 8	2Ls-90 × 90 × 8	2Ls-100 × 90 × 8
1 500 mm	L-90 × 90 × 8	L-125 × 90 × 8	203	L-90 × 90 × 8	L-90 × 90 × 8	L-125 × 90 × 8	L-125 × 90 × 10	L-125 × 90 × 13	L-150 × 100 × 10	— — —
			305	2Ls-90 × 90 × 8	2Ls-90 × 90 × 8	2Ls-90 × 90 × 8	2Ls-125 × 90 × 8	2Ls-125 × 90 × 8	2Ls-125 × 90 × 8	2Ls-125 × 90 × 10
1 800 mm	L-100 × 90 × 8	L-125 × 125 × 8	203	L-100 × 90 × 8	L-125 × 90 × 8	L-125 × 90 × 10	L-150 × 100 × 8			
			305	2Ls-100 × 90 × 8	2Ls-100 × 90 × 8	2Ls-125 × 90 × 8	2Ls-125 × 90 × 10	2Ls-125 × 90 × 10	2Ls-150 × 100 × 10	2Ls-150 × 100 × 10
2 100 mm	L-100 × 90 × 8	L-125 × 125 × 8	203	L-100 × 90 × 8	L-125 × 90 × 10	L-150 × 100 × 10				
			305	2Ls-100 × 90 × 8	2Ls-125 × 90 × 10	2Ls-125 × 90 × 10	2Ls-150 × 100 × 10	2Ls-150 × 100 × 10		
2 400 mm	L-125 × 90 × 8	L-125 × 125 × 8	203	L-125 × 90 × 8	L-150 × 100 × 10					
			305	2Ls-125 × 90 × 8	2Ls-125 × 90 × 13	2Ls-150 × 100 × 10				
2 700 mm	L-125 × 90 × 10	L-125 × 125 × 10	203	L-125 × 90 × 10						
			305	2Ls-125 × 150 × 10	2Ls-150 × 100 × 10					

**Table 9.20.5.A. (Cont'd)**  
Forming Part of Sentence 9.20.5.2.(2)

Loose Steel Lintels for Masonry - No. & Size of Angles Required (7)										
Clear Span (1)(3)	Exterior Angles		Wall Thick- ness	Interior Angles						
	for Brick	for Stone		Maximum Floor Loads per Metre of Span in Newtons (2) (4) (5)						
	100 mm	100 mm + 50 mm stone facing								
	No Floor Load			None	3 650	7 300	10 950	14 600	18 250	21 900
3 000 mm	L-150 × 100 × 10	L-125 × 125 × 13	203	L-150 × 100 × 10						
			305	2Ls-150 × 100 × 10						

**Notes to Table 9.20.5.A.:**

- (1) 150 mm min. bearing required for all lintels.
- (2) Omit floor load in lintel when distance to bottom of floor construction is greater than width of opening.
- (3) Interior and exterior angles in 200 mm walls and interior angles in 300 mm walls are bolted together when clear span is over 1800 mm.
- (4) When masonry lighter than brick is used over interior angles floor load may be increased by the difference in weight per sq. m times the width of the opening. Not generally available.
- (5) Interior angles have been designed for floor load plus brick masonry of height equal to width of opening.
- (6)  $f_s = 138 \text{ MPa}$ .  
Deflection maximum =  $1/700$  span.
- (7) The figures in the Table indicating wall thickness and angle cross-section are in mm.

**Table 9.20.5.B.**  
Forming Part of Sentence 9.20.5.3.(3)

Maximum Allowable Spans for Steel Lintels Supporting Masonry Veneer, m					
Minimum Angle Size, mm			75 mm Brick	90 mm Brick	100 mm Stone
Vert. Leg	Horiz. Leg	Thickness			
90	75	6	2.55	—	—
90	90	6	2.59	2.47	2.30
100	90	6	2.79	2.66	2.48
125	90	8	3.47	3.31	3.08
125	90	10	3.64	3.48	3.24
Column 1	2	3	4	5	6

**9.20.6. Thickness and Height**

**9.20.6.1. Thickness of Exterior Walls**

(1) Masonry exterior walls, other than cavity walls, in 1-storey buildings and the top storeys of 2-storey buildings shall be not less than 140 mm thick provided the walls are not more than 2.8 m high at the eaves and 4.6 m high at the peaks of gable ends.

(2) The exterior walls of the bottom storeys of 2-storey buildings and walls of 3-storey buildings shall be not less than 190 mm thick.

(3) In exterior walls composed of more than one wythe, each wythe shall be not less than 90 mm thick.



**9.20.6.2. Cavity Walls**

(1) Cavity walls shall be made with not less than 90 mm wide units if the joints are raked and not less than 75 mm wide units if the joints are not raked.

(2) The width of a cavity in a cavity wall shall be not less than 50 mm nor greater than 150 mm.

(3) The minimum thickness of cavity walls above the supporting base shall be 230 mm for the top 7.6 m and 330 mm for the remaining portion, except that where 75 mm wide units are used, the wall height above the top of the *foundation* wall shall not exceed 6 m.

**9.20.6.3. Thickness of Interior Walls**

(1) The thickness of *loadbearing* interior walls shall be determined on the basis of Article 9.20.10.1.

(2) Interior non-*loadbearing* walls shall be not less than 65 mm thick.

**9.20.6.4. Masonry Veneer Walls**

(1) Masonry veneer resting on a bearing support shall be of solid units not less than 70 mm thick for wall heights up to 11 m.

(2) Veneer described in Sentence (1) over wood-frame walls shall have not less than a 25 mm air space behind the veneer.

(3) Masonry veneer less than 90 mm thick shall have unraked joints.

(4) Masonry veneer individually supported by the back-up material shall conform to the appropriate requirements contained in Subsection 4.3.2.

**9.20.6.5. Parapet Walls**

(1) The height of parapet walls above the adjacent roof surface shall be not more than 3 times the parapet wall thickness.

(2) Parapet walls shall be solid from the top of the parapet to not less than 300 mm below the adjacent roof level.

**9.20.6.6. Facings.** Limestone slab facings and precast concrete panel facings shall conform to the appropriate requirements of Subsection 4.3.2.

**9.20.7. Chases and Recesses**

**9.20.7.1. Maximum Dimensions.** Except as permitted in Sentence 9.20.7.2.(2) and Article 9.20.7.4., the depth of any chase or recess shall not exceed one-third the thickness of the wall, and the horizontal projection of the chase or recess shall not exceed 500 mm.

**9.20.7.2. Minimum Wall Thickness**

(1) Except as permitted in Sentence (2) and Article 9.20.7.4., no chase or recess shall be constructed in any wall 190 mm or less in thickness.

(2) Recesses may be constructed in 190 mm walls provided they do not exceed 100 mm in depth and 750 mm in height, and the horizontal projection of the recess does not exceed 500 mm.

**9.20.7.3. Separation of Chases and Recesses.** Chases and recesses shall be not less than 4 times the wall thickness apart and not less than 600 mm away from any pilaster, cross wall, buttress or the vertical element providing required lateral support for the wall.

**9.20.7.4. Non-Conforming Chases or Recesses.** Chases or recesses that do not conform to the limits specified in Articles 9.20.7.1. to 9.20.7.3. shall be considered as openings, and any masonry supported above such a chase or recess shall be supported by a lintel or arch.

**9.20.7.5. Chases or Recesses Cut into Walls.** Chases and recesses shall not be cut into walls made with hollow units after the masonry units are in place.

**9.20.8. Support of Loads****9.20.8.1. Capping of Hollow Masonry Walls**

(1) Except as permitted in Sentence (2), *loadbearing* walls of hollow masonry units supporting roof or floor framing members shall be capped with not less than 50 mm of solid masonry or have the top course filled with concrete.

(2) Capping required in Sentence (1) may be omitted where the roof framing is supported on a wood plate not less than 38 mm by 89 mm.

#### **9.20.8.2. Cavity Walls Supporting Framing Members**

(1) Floor joists supported on cavity walls shall be supported on solid units not less than 57 mm high.

(2) Floor joists described in Sentence (1) shall not project into the cavity.

(3) Roof and ceiling framing members bearing on cavity walls shall be supported on not less than 57 mm of solid masonry, bridging the full thickness of the wall, or a wood plate not less than 38 mm thick, bearing not less than 50 mm on each wythe.

#### **9.20.8.3. Bearing of Beams and Joists**

(1) The bearing area under beams and joists shall be sufficient to carry the supported load.

(2) In no case shall the minimum length of end bearing of beams supported on masonry be less than 90 mm.

(3) The length of end bearing of floor, roof or ceiling joists supported on masonry shall be not less than 40 mm.

#### **9.20.8.4. Support of Beams and Columns**

(1) Beams and columns supported on masonry walls shall be supported on pilasters where the thickness of the masonry wall or wythe is less than 190 mm.

(2) Not less than 190 mm depth of solid masonry or concrete shall be provided under the beam or column.

(3) Pilasters required in Sentence (1) shall be bonded or tied to masonry walls.

(4) Concrete pilasters required in Sentence (1) shall be not less than 50 mm by 300 mm.

(5) Unit masonry pilasters required in Sentence (1) shall be not less than 100 mm by 290 mm.

**9.20.8.5. Distance to Edge of Supporting Members.** The distance from the face of a wall to the edge of a supporting member attached to the structure, such as a shelf angle or the flange of a beam, shall not exceed 30 mm, except as otherwise permitted in Subsection 4.3.2.

#### **9.20.9. Bonding and Tying**

##### **9.20.9.1. Joints to be Offset or Reinforced**

(1) Vertical joints in adjacent masonry courses shall be offset unless each wythe of masonry is reinforced with the equivalent of not less than 2 corrosion-resistant steel bars of 3.76 mm diam placed in the horizontal joints at vertical intervals not exceeding 460 mm.

(2) Where joints in the reinforcing referred to in Sentence (1) occur, the bars shall be lapped not less than 150 mm.

**9.20.9.2. Bonding or Ties.** Masonry walls that consist of 2 or more wythes shall have the wythes bonded or tied together with masonry bonding units as described in Article 9.20.9.3. or with metal ties as described in Articles 9.20.9.4.

##### **9.20.9.3. Bonding with Masonry Units**

(1) Where wythes are bonded together with masonry units, the bonding units shall comprise not less than 4 per cent of the wall surface area.

(2) Bonding units described in Sentence (1) shall be spaced not more than 600 mm vertically and horizontally in the case of brick masonry and 900 mm o.c. in the case of block or tile.

(3) Units described in Sentence (1) shall extend not less than 90 mm into adjacent wythes.

##### **9.20.9.4. Bonding with Metal Ties**

(1) Where 2 or more wythes are bonded together with metal ties of the individual rod type, the ties shall conform to the requirements in Sentences (2) to (7).

(2) Other metal bonding ties may be used where it can be shown that such ties provide walls that are at least as strong and as durable as those made with the individual rod type.

(3) Metal ties of the individual rod type shall be corrosion-resistant and shall have

- (a) a minimum cross-sectional area of not less than 17.8 mm<sup>2</sup>, and
  - (b) not less than a 50 mm portion bent at right angles at each end.
- (4) Metal ties of the individual rod type shall
- (a) extend from within 25 mm of the outer face of the wall to within 25 mm of the inner face of the wall,
  - (b) be completely embedded in mortar except for the portion exposed in cavity walls, and
  - (c) be staggered from course to course.
- (5) Where 2 or more wythes in walls other than cavity walls are bonded together with metal ties of the individual rod type, the space between wythes shall be completely filled with mortar.
- (6) Ties described in Sentence (5) shall be
- (a) located within 300 mm of openings and spaced not more than 900 mm apart around openings, and
  - (b) spaced not more than 900 mm apart horizontally and 460 mm apart vertically at other locations.
- (7) Where the inner and outer wythes of cavity walls are connected with individual wire ties, the ties shall be
- (a) spaced not more than 600 mm apart horizontally within 100 mm of the bottom of each floor or room assembly where the cavity extends below the assemblies,
  - (b) spaced not more than 900 mm horizontally and 400 mm apart vertically at other locations.

9.20.9.5. Ties for Masonry Veneer

(1) Masonry veneer 70 mm or more in thickness and resting on a bearing support shall be tied to masonry back-up or to wood framing members with not less than 0.76 mm thick, 22 mm wide corrosion-resistant straps spaced in accordance with Table 9.20.9.A. and shaped to provide a key with the mortar.

Table 9.20.9.A.  
Forming Part of Sentence 9.20.9.5.(1)

Veneer Tie Spacing	
Maximum Vertical Spacing, mm	Maximum Horizontal Spacing, mm
400	800
500	600
600	400
Column 1	2

(2) Masonry veneer individually supported by masonry or wood-frame back-up shall be secured to the back-up in conformance with Subsection 4.3.2.

9.20.9.6. Reinforcing for Glass Block

(1) Glass block shall have horizontal joint reinforcement of 2 corrosion-resistant bars of not less than 3.76 mm diam or expanded metal strips not less than 75 mm wide spaced at vertical intervals not exceeding 600 mm for units 190 mm or less in height and in every horizontal joint for units higher than 190 mm.

(2) Reinforcement required in Sentence (1) shall be lapped not less than 150 mm.

9.20.10. Lateral Support

9.20.10.1. Lateral Support Required

(1) Masonry walls shall be supported at right angles to the wall by floor or roof construction or by intersecting masonry walls or buttresses.

(2) The maximum spacing of supports in Sentence (1) shall be

- (a) 20 times the wall thickness for all loadbearing walls and exterior non-loadbearing walls, and
- (b) 36 times the wall thickness for interior non-loadbearing walls.

(3) In applying Sentence (2), the thickness of cavity walls shall be taken as two-thirds of the sum of the thicknesses of the wythes.

(4) Floor and roof constructions providing required lateral support for walls as required in Sentence (1) shall be constructed to transfer lateral loads to walls or buttresses approximately at right angles to the laterally supported walls.

#### **9.20.11. Anchorage of Roofs, Floors and Intersecting Walls**

##### **9.20.11.1. Anchorage of Floor or Roof Assemblies**

(1) Where required to provide lateral support, masonry walls shall be anchored to each floor or roof assembly at maximum intervals of 2 m, except that anchorage of floor joists not more than 1 m above *grade* may be omitted.

(2) Anchors required in Sentence (1) shall be corrosion-resistant and be not less than the equivalent of 40 mm by 4.76 mm thick steel straps.

(3) Anchors required in Sentence (1) shall be shaped to provide a mechanical key with the masonry and shall be securely fastened to the horizontal support to develop the full strength of the tie.

(4) When joists are parallel to the wall, anchors required in Sentence (1) shall extend across not less than 3 joists.

##### **9.20.11.2. Anchorage of Intersecting Walls**

(1) Where required to provide lateral support, intersecting walls shall be bonded or tied together.

(2) Fifty per cent of the adjacent masonry units in the intersecting wall referred to in Sentence (1) shall be embedded in the laterally supported wall, or corrosion-resistant metal ties equivalent to not less than 4.76 mm by 40 mm steel strapping shall be provided.

(3) Ties required in Sentence (1) shall be spaced not more than 800 mm o.c. vertically and shaped at both ends to provide sufficient mechanical key to develop the strength of the ties.

##### **9.20.11.3. Wood Frame Walls Intersecting Masonry Walls**

(1) Wood-frame walls shall be tied to intersecting masonry walls with not less than 4.76 mm diam corrosion-resistant steel rods spaced not more than 900 mm o.c. vertically.

(2) Ties required in Sentence (1) shall be anchored to the wood framing at one end and shaped to provide a mechanical key at the other end to develop the strength of the tie.

##### **9.20.11.4. Wood Frame Roof Systems**

(1) Except as permitted in Sentence (2), roof systems of wood-frame construction shall be tied to exterior walls by not less than 12.7 mm diam anchor bolts, spaced not more than 2.4 m apart, embedded not less than 90 mm into the masonry and fastened to a rafter plate of not less than 38 mm thick lumber.

(2) The roof system described in Sentence (1) is permitted to be anchored by nailing the wall furring strips to the side of the rafter plate.

**9.20.11.5. Cornices, Sills and Trim.** Cornices, sills or other trim of masonry material which project beyond the wall face shall have not less than 65 per cent of their mass, but not less than 90 mm, within the wall or shall be adequately anchored to the wall with corrosion-resistant anchors.

**9.20.11.6. Anchor Bolts.** Where anchor bolts are to be placed in the top of a pier, the pier shall be capped with concrete or reinforced masonry not less than 300 mm thick.

#### **9.20.12. Corbelling**

##### **9.20.12.1. Corbelling**

(1) All corbelling shall consist of solid units.

(2) The units referred to in Sentence (1) shall be corbelled so that the horizontal projection of any unit does not exceed 25 mm and the total projection does not exceed one-third of the total wall thickness.

##### **9.20.12.2. Corbelling for Cavity Walls**

(1) Cavity walls of greater thickness than the *foundation* wall on which they rest shall not be corbelled but may project 25 mm over the outer face of the *foundation* wall disregarding parging.



(2) The unit masonry *foundation* wall referred to in Sentence (1) is permitted to be corbelled to meet flush with the inner face of a cavity wall provided the individual corbel does not exceed half the height or one-third the width of the corbelled unit and the total corbel does not exceed one-third the *foundation* wall thickness.

#### **9.20.12.3. Corbelling for Masonry Veneer**

(1) Masonry veneer resting on a bearing support shall not project more than 25 mm beyond the supporting base where the veneer is at least 90 mm thick, and 12 mm beyond the supporting base where the veneer is less than 90 mm thick.

(2) In the case of rough stone veneer, the projection, measured as the average projection of the stone units, shall not exceed one-third the bed width beyond the supporting base.

#### **9.20.13. Control of Rain Water Penetration**

##### **9.20.13.1. Materials for Exposed Flashing**

(1) Exposed flashing shall consist of not less than 1.73 mm sheet lead, 0.33 mm galvanized steel, 0.36 mm copper, 0.46 mm zinc or 0.48 mm thick aluminum.

(2) Aluminum flashing in contact with masonry or concrete shall be effectively coated or separated from the masonry or concrete by an impervious membrane.

**9.20.13.2. Materials for Concealed Flashing.** Concealed flashing shall consist of not less than 1.73 mm sheet lead, 0.33 mm galvanized steel, 0.36 mm copper, 0.46 mm zinc, Type S roll roofing, 0.15 mm polyethylene or 0.05 mm copper or aluminum laminated to felt or kraft paper.

**9.20.13.3. Fastening of Flashing.** Fastening devices for flashing shall be corrosion-resistant and compatible with the flashing with respect to galvanic action.

##### **9.20.13.4. Location of Flashing**

(1) Flashing shall be installed in masonry and masonry veneer walls

- (a) beneath jointed masonry window sills,
- (b) over the back and top of parapet walls,
- (c) over the heads of glass block panels, beneath weep holes, and
- (d) over the heads of window and door openings in exterior walls when the vertical distance between the top of a window or door trim and the bottom edge of the eave exceeds one-quarter of the horizontal eave overhang.

##### **9.20.13.5. Extension of Flashing**

(1) A flashing may be deleted when the masonry at the sill of a wall opening or the top of a wall is protected by an impervious non-jointed masonry coping which conforms to Article 9.20.13.13.

(2) When installed beneath jointed sills and jointed copings or over the heads of openings, the flashing shall extend from the front edge of the masonry up behind the sill or lintel.

##### **9.20.13.6. Flashing for Weep Holes in Cavity Walls**

(1) Flashing beneath weep holes in cavity walls shall

- (a) be bedded not less than 25 mm in the inside wythe,
- (b) extend to not less than 5 mm beyond the outer face of the supporting wall, and
- (c) slope toward the outside wythe.

##### **9.20.13.7. Flashing for Weep Holes in Veneer**

(1) Flashing beneath weep holes in masonry veneer over wood-frame walls shall be installed so that it extends from a point not less than 5 mm beyond the outer face of the supporting wall to a point 150 mm up behind the sheathing paper.

(2) Flashing described in Sentence (1) is permitted to conform to the requirements for concealed flashing in Article 9.20.13.2.

**9.20.13.8. Flashing Joints.** Joints in flashing shall be made watertight.

**9.20.13.9. Required Weep Holes.** Weep holes spaced not more than 800 mm apart shall be provided at the

bottom of the cavity in cavity wall and masonry veneer wall construction including the cavities above lintels over window and door openings required to be flashed in conformance with Article 9.20.13.4.

#### **9.20.13.10. Protection of Interior Finish**

(1) Where the interior finish of the exterior walls of a *building* is a type which may be damaged by moisture, exterior masonry walls, other than cavity walls or walls that are protected for their full height by a roof of a carport or porch, shall be

- (a) parged on the interior surface, and
- (b) covered with No. 15 breather-type asphalt-saturated paper conforming to CAN2-51.32, "Sheathing, Membrane, Breather Type", and
- (c) the paper referred to in Clause (b) shall be lapped at least 100 mm at the joints.

(2) Where the insulation effectively limits the passage of water vapour and is applied by a waterproof adhesive or by mortar directly to the masonry, the requirements for sheathing paper do not apply.

**9.20.13.11. Mortar Droppings.** Cavity walls shall be constructed so that mortar droppings are prevented from forming a bridge to allow the passage of rain water across the cavity.

**9.20.13.12. Caulking at Door and Window Frames.** The junction of door and window frames with masonry shall be caulked in conformance with Subsection 9.27.4.

**9.20.13.13. Drips Beneath Window Sills.** Except for wall openings located less than 150 mm above ground level, where a concealed flashing is not installed beneath window and door sills, such sills shall be provided with an outward slope and a drip located not less than 25 mm from the wall surface.

**9.20.13.14. Solid Bearing Surface for Pliable Flashings.** The horizontal portion of any concealed pliable type flashings shall be installed upon a continuous solid bearing surface to prevent sags and water accumulation on the flashing.

#### **9.20.14. Protection**

##### **9.20.14.1. Laying Temperature of Mortar and Masonry**

(1) Mortar and masonry shall be maintained at a temperature not below 5°C during installation and for not less than 48 h after installation.

(2) No frozen material shall be used in the mix.

**9.20.14.2. Protection from Weather.** The top surface of uncompleted masonry exposed to the weather shall be completely covered with a waterproofing material when construction is not in progress.

##### **9.20.15. Reinforcement for Earthquake Resistance**

**9.20.15.1. Amount of Reinforcement.** Where reinforcement is required in this Section, masonry walls shall be reinforced horizontally and vertically with steel having a total cross-sectional area of not less than 0.002 times the cross-sectional area of the wall, so that not less than one-third of the required steel area is installed either horizontally or vertically and the remainder in the other direction.

**9.20.15.2. Installation Standard.** Where reinforcement for masonry is required in this Section, it shall be installed in conformance with the requirements for reinforced masonry as contained in CAN3-A371, "Masonry Construction for Buildings".

##### **9.20.16. Corrosion Resistance**

**9.20.16.1.** Carbon steel connectors required to be corrosion-resistant shall be galvanized to at least the minimum standards in Table 9.20.16.A.

**Table 9.20.16.A.**  
Forming Part of Article 9.20.16.1.

Minimum Requirements for Galvanizing		
Connector Material	ASTM Standard	Coating Class
Wire ties and continuous reinforcing (hot-dipped galvanizing)	A153	Class B2 458 g/m <sup>2</sup>
Hardware and bolts	A153	See A113
Strip, plate, bars, and rolled sections (not less than 3.18 mm thick)	A123	619 g/m <sup>2</sup>
Sheet (less than 3.18 mm thick)	A123	305 g/m <sup>2</sup> on material 0.76 mm thick (1)
Column 1	2	3

**Notes to Table 9.20.16.A.:**

- (1) Astm A123 does not apply to metal less than 3.18 mm thick. Galvanizing coatings may be interpolated for thicknesses between 3.18 mm and 0.76 mm.

**Section 9.21 Chimneys and Flues****9.21.1. General**

**9.21.1.1. Application.** Except when otherwise specifically stated herein, this Section applies to rectangular *chimneys* of brick masonry or concrete not more than 12 m in height serving fireplaces or serving *appliances* having a combined total rated heat output of 120 kW or less, and to *flue pipes* serving *appliances* regulated by Article 9.33.1.2.

**9.21.1.2. Factory-Built Chimneys.** *Factory-built chimneys* serving solid fuel-burning *appliances*, and their installation, shall conform to CAN/ULC4-S629, "Standard for 650°C Factory-Built Chimneys."

**9.21.1.3. Chimneys, Gas Vents or Flue Pipes**

(1) Except as provided in Sentence (2), *chimneys* (other than those described in Articles 9.21.1.1, and 9.21.1.2.), *gas vents* and *flue pipes* serving gas- oil- or solid-fuel burning *appliances* and associated equipment shall conform to Section 6.3.

(2) *Flue pipes* serving solid-fuel burning *stoves*, *ranges* and *space heaters* shall conform to the requirements of CAN3-B365, "Installation Code for Solid-Fuel Burning Appliances and Equipment."

**9.21.1.4. Chimney or Flue Pipe Walls.** The walls of any *chimney* or *flue pipe* shall be constructed to be smoke- and flame-tight.

**9.21.2. Chimney Flues**

**9.21.2.1. Chimney Flue Limitation.** A *chimney flue* serving a fireplace or incinerator shall not serve any other *appliance*.

**9.21.2.2. Connections of More Than One Appliance**

(1) Except as required in Article 9.21.2.1., 2 or more fuel-burning *appliances* may be connected to the same *chimney flue* provided adequate draft is maintained for the connected *appliances* and the connections are made as described in Sentences (2) and (3).

(2) Where 2 or more fuel-burning *appliances* are connected to the same *chimney flue*, the *appliances* must be located on the same *storey*.

(3) The connection referred to in Sentence (2) for a solid fuel-burning *appliance* shall be below connections for *appliances* burning other fuels.

(4) Solid fuel-burning *appliances* shall not be connected to a *chimney flue* serving a gas burning *appliance*.

**9.21.2.3. Inclined Chimney Flues.** *Chimney flues* shall not be inclined more than 45° to the vertical.

**9.21.2.4. Size of Chimney Flues**

(1) Except for *chimneys* serving fireplaces, the size of a *chimney flue* shall conform to the requirements of the *appliance* installation standards referenced in Sentence 6.2.1.4.(1) and Article 9.33.1.2.

(2) Where a *chimney flue* serves only one *appliance*, the *flue* area shall be at least equal to that of the *flue pipe* connected to it.

**9.21.2.5. Fireplace Chimneys.** The minimum size of a *chimney flue* serving a masonry fireplace shall conform to Table 9.21.2.A. or Table 9.21.2.B.

**Table 9.21.2.A.**  
Forming Part of Article 9.21.2.5.

Diameter of Round Flues for Fireplace Chimneys, mm				
Maximum Fireplace Opening, m <sup>2</sup>	Chimney Height, m			
	3.0	4.6	6.0	9.0
0.15	140	128	124	116
0.25	181	164	156	145
0.35	212	193	184	171
0.50	253	229	218	202
0.65	287	260	247	227
0.80	318	290	273	251
1.0	356	321	303	279
1.2	388	352	331	304
1.4	419	380	358	328
1.6	448	405	382	349
1.8	—	430	404	371
2.0	—	—	425	390
2.2	—	—	—	407
Column 1	2	3	4	5

**Table 9.21.2.B.**  
Forming Part of Article 9.21.2.5.

Nominal Rectangular Flue Sizes for Fireplace Chimneys, mm				
Maximum Fireplace Opening, m <sup>2</sup>	Chimney Height, m			
	3.0	4.6	6.0	9.0
0.15	200 × 200	200 × 200	200 × 200	200 × 200
0.25	200 × 300	200 × 200	200 × 200	200 × 200
0.35	200 × 300	200 × 300	200 × 300	200 × 200
0.50	300 × 300	300 × 300	300 × 300	200 × 300
0.65	300 × 400	300 × 300	300 × 300	300 × 300
0.80	400 × 400	300 × 400	300 × 400	300 × 300
1.0	400 × 400	400 × 400	300 × 400	300 × 400
1.2	—	400 × 400	400 × 400	300 × 400
1.4	—	—	400 × 400	400 × 400
1.6	—	—	—	400 × 400
1.8	—	—	—	—
2.0	—	—	—	—
2.2	—	—	—	—
Column 1	2	3	4	5

**9.21.2.6. Oval Chimney Flues.** The width of an oval *chimney flue* shall be not less than two-thirds its breadth.

**9.21.3. Chimney Lining**

**9.21.3.1. Lining Materials.** Every *masonry* or *concrete chimney* shall have a lining of clay, concrete, firebrick or metal.



**9.21.3.2. Joints in Chimney Liners**

(1) Joints of *chimneys liners* shall be sealed to provide a barrier to the passage of flue gases and condensate into the cavity between the liner and the surrounding masonry.

(2) Joints of clay, concrete or firebrick *chimney liners* shall be struck flush to provide a straight, smooth, aligned *chimney flue*.

**9.21.3.3. Clay Liners**

(1) Clay liners shall conform to ASTM C315, "Clay Flue Linings".

(2) Liners referred to in Sentence (1) shall be not less than 15.9 mm thick and shall be capable of resisting, without softening or cracking, a temperature of 1100°C.

**9.21.3.4. Firebrick Liners.** Firebrick liners shall conform to ASTM C27, "Classification of Fireclay and High Alumina Refractory Brick" and shall be laid with high temperature cement mortar conforming to CGSB 10-GP-3Ma, "Refractory Mortar, Air Setting".

**9.21.3.5. Concrete Liners.** Concrete flue liners shall conform to Clause 4.2.6.4. of CAN/CSA-A405, "Design and Construction of Masonry Chimneys and Fireplaces."

**9.21.3.6. Metal Liners**

(1) Metal liners shall be constructed of at least 0.3 mm thick stainless steel.

(2) Metal liners referred to in Sentence (1) shall only be used in *chimneys* serving gas-, or oil-burning *appliances*.

**9.21.3.7. Installation of Chimney Liners.** *Chimney liners* shall be installed when the surrounding masonry or concrete is placed.

**9.21.3.8. Spaces between Liners and Surrounding Masonry**

(1) Spaces between the liner and surrounding masonry shall not be filled with mortar where the *chimney* walls are less than 190 mm in thickness.

(2) A space not less than 10 mm wide shall be left between a liner and the surrounding masonry.

**9.21.3.9. Mortar for Chimney Liners**

(1) *Chimney liners* used in *chimneys* for solid fuel-burning *appliances* shall be laid in a full bed of

(a) high temperature cement mortar conforming to CGSB 10-GP-3Ma, "Refractory Mortar, Air Setting," or

(b) mortar consisting of 1 part portland cement to 3 parts sand by volume.

(2) *Chimney liners* used in *chimneys* for oil- or gas-burning *appliances* shall be laid in a full bed of mortar consisting of 1 part Portland cement to 3 parts sand by volume.

**9.21.3.10. Extension of Chimney Liners.** *Chimney liners* shall extend from a point not less than 200 mm below the lowest *flue pipe* connection to a point not less than 50 mm or more than 100 mm above the *chimney* cap.

**9.21.4. Masonry and Concrete Chimney Construction**

**9.21.4.1. Unit Masonry.** Unit masonry shall conform to Section 9.20.

**9.21.4.2. Concrete.** Concrete shall conform to Section 9.3.

**9.21.4.3. Footings.** Footings for *masonry chimneys* and *concrete chimneys* shall conform to the requirements in Section 9.15.

**9.21.4.4. Height of Chimney Flues.** A *chimney flue* shall extend not less than 900 mm above the highest point at which the *chimney* comes in contact with the roof, and not less than 600 mm above the highest roof surface or structure within 3 m of the *chimney*.

**9.21.4.5. Lateral Stability.** *Chimneys* shall be braced when necessary to provide lateral stability.

**9.21.4.6. Chimney Caps**

(1) The top of a *chimney* shall have a waterproof cap of reinforced concrete, masonry or metal.

(2) The cap required in Sentence (1) shall slope from the lining and be provided with a drip not less than 25 mm from the *chimney* wall.

(3) Cast-in-place concrete caps shall be separated from the *chimney liner* by a bond break and be sealed at that location.

(4) Jointed precast concrete or masonry *chimney* caps shall have flashing installed beneath the cap extending from the liner to the drip edge.

**9.21.4.7. Cleanout.** Except for a *chimney flue* constructed to serve a masonry fireplace, every *chimney flue* shall have a cleanout opening furnished with a tight-fitting metal frame and door installed near the base of the *chimney flue*.

**9.21.4.8. Wall Thickness.** The walls of a *masonry chimney* shall be built of solid units not less than 75 mm thick.

#### **9.21.4.9. Separation of Flue Liners**

(1) *Flue* liners in the same *chimney* shall be separated by not less than 75 mm of masonry or concrete exclusive of liners where clay liners are used, or 90 mm of firebrick where firebrick liners are used.

(2) *Flue* liners referred to in Sentence (2) shall be installed to prevent significant lateral movement.

**9.21.4.10. Flashing.** Junctions with adjacent materials shall be adequately flashed to shed water.

#### **9.21.5. Clearance from Combustible Construction**

##### **9.21.5.1. Clearance from Combustible Materials**

(1) The clearance between *masonry or concrete chimneys* and *combustible* framing shall be not less than 50 mm for interior *chimneys* and 12 mm for exterior *chimneys*.

(2) A clearance of not less than 150 mm shall be provided between a cleanout opening and *combustible* material.

(3) Flooring shall have not less than a 12 mm clearance from *masonry or concrete chimneys*.

**9.21.5.2. Sealing of Spaces.** All spaces between *masonry or concrete chimneys* and *combustible* framing shall be sealed top or bottom with *noncombustible* material.

**9.21.5.3. Support of Joists or Beams.** Joists or beams may be supported on masonry walls which enclose *chimney flues* provided the *combustible* members are separated from the *flue* by a minimum of 290 mm of solid masonry.

### **Section 9.22 Fireplaces**

#### **9.22.1. General**

**9.22.1.1. Application.** Except as otherwise stated herein, this Section applies to masonry fireplaces constructed on site.

**9.22.1.2. Masonry and Concrete.** Except as otherwise stated in this Section, unit masonry shall conform to Section 9.20 and concrete to Section 9.3.

**9.22.1.3. Footings.** Footings for masonry and concrete fireplaces shall conform to Section 9.15.

##### **9.22.1.4. Combustion Air**

(1) Except as permitted in Article 9.22.1.5. and 9.22.1.6., every fireplace, including a factory-built fireplace, shall have a supply of combustion air from outdoors in accordance with Sentences (2) to (12)

(2) The combustion air shall be supplied by a *noncombustible* and corrosion-resistant supply duct.

(3) The supply duct shall have

- (a) a diameter of at least 100 mm or an equivalent area,
- (b) an exterior intake for entry of air from the outdoors, and
- (c) an interior outlet for providing air for the fire chamber.

(4) The supply duct shall contain a tight-fitting damper that shall be located close to the interior outlet and be operable from the room containing the fireplace.

- (5) The operating mechanism shall clearly indicate the actual position of the damper.
- (6) The interior outlet shall,
  - (a) be located as close as possible to the opening in the face of the fireplace,
  - (b) be designed to prevent embers from entering the supply duct, and
  - (c) where it is placed inside the fire chamber, be located at the front centre of the fire chamber hearth and be equipped with a *noncombustible* hood.
- (7) The exterior intake shall be protected against the entry of rain and direct wind and have an insect screen of corrosion-resistant material.
- (8) Where the exterior intake is located above the level of the fire chamber hearth, the interior outlet shall be located at a level at or below the level of the hearth.
- (9) Where the interior outlet is located in the fire chamber and the exterior intake is located at or below the level of the fire chamber hearth, the supply duct shall be installed with a minimum clearance from *combustible* material of 50 mm for a distance of 1 m measured from the outlet.
- (10) Where the interior outlet is located in the fire chamber hearth and the exterior intake is located above the level of the fire chamber hearth, the supply duct shall be installed with a minimum clearance from *combustible* material of,
  - (a) 50 mm for a distance of 1 meter measured from the outlet, and
  - (b) 25 mm for the remainder of the supply duct to the intake.
- (11) The exterior intake shall be located to avoid being blocked by snow or fallen leaves.
- (12) Where the supply duct is exposed to a heated space, the duct shall be insulated to provide a thermal resistance of not less than RSI 1.4.

**9.22.1.5. Combustion Air for Factory-Built Fireplaces.** Factory-built fireplaces need not be installed to conform with Sentences 9.22.1.4.(2) to (10) where comparable provisions are included as part of a factory-built fireplace conforming to Article 9.22.8.1.

**9.22.1.6. Combustion Air for Steel Fireplace Liners.** A steel fireplace liner need not be installed to conform with Sentences 9.22.1.4.(2) to (10) where comparable provisions are included as part of a steel fireplace liner conforming to Article 9.22.2.3.

## **9.22.2. Fireplace Liners**

**9.22.2.1. Fireplace Liners.** Except where a fireplace is equipped with a steel liner, every fireplace shall have a firebrick liner not less than 50 mm thick for the sides and back and not less than 25 mm thick for the floor.

### **9.22.2.2. Firebrick Liners**

(1) Firebrick liners shall be laid with high temperature cement mortar conforming to CGSB 10-GP-3Ma, "Refractory Mortar, Air Setting"

(2) Joints between a firebrick liner and the adjacent back-up masonry shall be offset.

**9.22.2.3. Steel Liners.** Steel liners for fireplaces shall conform to CAN/ULC-S639M, "Standard for Steel Liner Assemblies for Solid-Fuel Burning Masonry Fireplaces," and shall be installed in accordance with the installation instructions required by that Standard.

## **9.22.3. Wall Thickness**

### **9.22.3.1. Thickness of Walls**

(1) Except as provided in Sentences (2) and (3), the back and sides of a fireplace shall be at least 190 mm thick where a metal liner or a 50 mm thick firebrick liner is used, including the thickness of the masonry liner.

(2) Portions of the back exposed to the outside may be 140 mm thick.

(3) When a steel fireplace liner is used with an air circulating chamber surrounding the firebox, the back and sides of the fireplace shall consist of not less than 90 mm thickness of solid masonry units or 190 mm thickness of hollow masonry units.

#### 9.22.4. Openings

9.22.4.1. Masonry above openings shall be supported by steel lintels conforming to Sentence 9.20.5.2.(2), reinforced concrete or a masonry arch.

#### 9.22.5. Hearth

##### 9.22.5.1. Hearth Extension

(1) Except as required in Sentence (2), fireplaces shall have a *noncombustible* hearth extending not less than 400 mm in front of the fireplace opening measured from the facing, and not less than 200 mm beyond each side of the fireplace opening.

(2) Where the hearth is elevated more than 150 mm above the hearth extension, the width of the hearth extension shall be increased by

- (a) 50 mm for an elevation above 150 mm and not more than 300 mm, and
- (b) an additional 25 mm for every 50 mm in elevation above 300 mm.

##### 9.22.5.2. Support of Hearth

(1) Except as permitted in Sentence (2), the hearth shall be supported on not less than a 140 mm thick trimmer arch of solid masonry units or not less than a 100 mm thick reinforced concrete trimmer.

(2) A hearth extension for a fireplace with an opening raised not less than 200 mm from a *combustible* floor is permitted to be placed on that floor provided the requirements of Clauses 5.3.6.5. to 5.3.6.7. of CAN/CSA-A405, "Design and Construction of Masonry Chimneys and Fireplaces" are followed.

#### 9.22.6. Damper

9.22.6.1. **Location of Damper.** The throat of every fireplace shall be equipped with a metal damper sufficiently large to cover the full area of the throat opening.

#### 9.22.7. Smoke Chamber

9.22.7.1. **Slope of Smoke Chamber.** The sides of the smoke chamber connecting a fireplace throat with a *flue* shall not be sloped at an angle greater than 45° to the vertical.

9.22.7.2. **Wall Thickness.** The thickness of masonry walls surrounding the smoke chamber shall be not less than 190 mm at the sides, front and back, except that the portions of the back exposed to the outside may be 140 mm thick.

#### 9.22.8. Factory-Built Fireplaces

9.22.8.1. **Standard.** Factory-built fireplaces and their installation shall conform to CAN/ULC S610, "Standard for Factory-Built Fireplaces."

#### 9.22.9. Clearance of Combustible Material

9.22.9.1. **Clearance to the Fireplace Opening.** *Combustible* material shall not be placed on or near the face of a fireplace within 150 mm of the fireplace opening, except that where the *combustible* material projects more than 38 mm out from the face of the fireplace above the opening, such material shall be at least 300 mm above the top of the opening.

9.22.9.2. **Metal Exposed to the Interior.** Metal exposed to the interior of a fireplace such as the damper control mechanism shall have at least a 50 mm clearance from any *combustible* material on the face of the fireplace where such metal penetrates through the face of the fireplace.

##### 9.22.9.3. Clearance to Combustible Framing

(1) Not less than a 100 mm clearance shall be provided between the back and sides of a fireplace and *combustible* framing, except that a 50 mm clearance is permitted where the fireplace is located in an exterior wall.

(2) Not less than a 50 mm clearance shall be provided between the back and sides of the smoke chamber of a fireplace and *combustible* framing, except that a 25 mm clearance is permitted where the fireplace is located in an exterior wall.

##### 9.22.9.4. Heat Circulating Duct Openings

(1) The clearance of *combustible* material above heat circulating duct openings from those openings shall be not less than



- (a) 300 mm where the *combustible* material projects more than 38 mm from the face, and
- (b) 150 mm where the projection is less than 38 mm.

#### 9.22.10. Fireplace Inserts

##### 9.22.10.1. Installation Standard

(1) Fireplace inserts shall conform to ULC S628, "Standard for Fireplace Inserts," and be installed according to CAN/CSA-B365-M, "Installation Code for Solid-Fuel Burning Appliances and Equipment."

(2) Fireplace inserts described in Sentence (1) may be installed in existing fireplaces only if a minimum thickness of 190 mm of solid masonry is provided between the smoke chamber and any existing *combustible* materials, unless the insert is listed for lesser clearances.

(3) A fireplace insert installed in a masonry fireplace shall have,

- (a) a *listed* metal *chimney liner* installed from the insert collar to the top of the *chimney*,
- (b) a direct sealed connection to the *chimney flue* where such provision is part of an insert conforming to Sentence 9.22.10.1.(1), or
- (c) a direct sealed connection to the smoke chamber and a cleanout provided to any inaccessible part of the smoke chamber.

#### Section 9.23 Wood-Frame Construction

##### 9.23.1. Scope

###### 9.23.1.1. Application

(1) This Section applies to conventional wood-frame construction in which the framing members are spaced not more than 600 mm o.c.

(2) The requirements in this Section with regard to floor framing, subflooring and their fastenings apply to floors for which the design *live load* does not exceed 2.4 kPa.

(3) The requirements in this Section with regard to wall framing and its fastenings apply to walls which support floors for which the design *live load* does not exceed 2.4 kPa on any floor.

(4) Where the conditions in Sentences (2) or (3) are exceeded, the design of the framing and fastening shall conform to Subsection 4.3.1.

**9.23.1.2. Post, Beam and Plank Construction.** Post, beam and plank construction and plank frame wall construction shall conform to Section 9.4.1.2.

##### 9.23.2. General

**9.23.2.1. Strength and Rigidity.** All members shall be so framed, anchored, fastened, tied and braced to provide the necessary strength and rigidity.

###### 9.23.2.2. Protection from Decay

(1) Ends of wood joists, beams and other members framing into masonry or concrete shall be treated to prevent decay where the bottom of the member is at or below ground level, or a 12 mm air space shall be provided at the end and sides of the member.

(2) Air spaces required in Sentence (1) shall not be blocked by insulation, vapour barriers or air barriers.

###### 9.23.2.3. Protection from Dampness

(1) Except as permitted in Sentence (2), wood framing members that are not pressure treated with a wood preservative and which are supported on concrete in contact with the ground or fill shall be separated from the concrete by not less than 0.05 mm polyethylene film or Type S roll roofing.

(2) Dampproofing material referred to in Sentence (1) is not required where the wood member is at least 50 mm above the ground.

**9.23.2.4. Lumber.** Lumber shall conform to the appropriate requirements in Subsection 9.3.2.

###### 9.23.2.5. Termite Protection

(1) Where termites are known to exist, unless pressure treated with a chemical that is toxic to such termites

in accordance with Article 9.3.2.9., wood steps shall rest on a non-cellulosic base or apron extending at least 150 mm above grade.

(2) Wood lattice or skirting around porches shall be separated from piers and soil by at least 50 mm.

### 9.23.3. Nails and Staples

**9.23.3.1. Standard for Nails.** Nails specified in this Section shall be common steel wire nails or common spiral nails, conforming to CSA B111, "Wire Nails, Spikes and Staples" unless otherwise indicated.

**9.23.3.2. Length of Nails.** All nails shall be long enough so that not less than  $\frac{1}{2}$  their length penetrates into the second member.

**9.23.3.3. Prevention of Splitting.** Splitting of wood members shall be minimized by staggering the nails in the direction of the grain and by keeping nails well in from the edges.

### 9.23.3.4. Nailing of Framing

(1) Except as provided in Sentence (2), nailing of framing shall conform to Table 9.23.3.A.

(2) Where the bottom wall plate or sole plate of an exterior wall is not nailed to joists or blocking in conformance with Table 9.23.3.A., the exterior wall may be fastened to the floor framing by

- (a) having plywood, waferboard or strandboard sheathing extend down over floor framing and fastened to the floor framing by nails or staples conforming to Article 9.23.3.5., or
- (b) tying the wall framing to the floor framing by 50 mm wide galvanized-metal strips of at least 0.41 mm in thickness, spaced not more than 1.2 m apart, and fastened at each end with at least two 63 mm nails.

**Table 9.23.3.A.**  
Forming Part of Article 9.23.3.4.

Nailing for Framing		
Construction Detail	Minimum Length Nails, mm	Minimum Number or Maximum Spacing of Nails
Floor joist to plate - toe nail	82	2
Wood or metal strapping to underside of floor joists	57	2
Cross bridging to joists	57	2 each end
Double header or trimmer joists	76	300 mm (o.c.)
Floor joist to stud (balloon construction)	76	2
Ledger strip to wood beam	82	2 per joist
Joist to joist splice (see also Table 9.23.13.A.)	76	2 at each end
Tail joist to adjacent header joist	82	5
(end nailed) around openings	101	3
Each header joist to adjacent trimmer joist	82	5
(end nailed) around openings	101	3
Stud to wall plate (each end) toe nail	63	4
or end nail	82	2
Doubled studs at openings, or studs at walls or wall intersections and corners	76	750 mm (o.c.)
Doubled top wall plates	76	600 mm (o.c.)
Bottom wall plate or sole plate to joists or blocking (exterior walls) (1)	82	400 mm (o.c.)
Interior walls to framing or subflooring	82	600 mm (o.c.)
Horizontal member over openings in non-loadbearing walls - each end	82	2
Lintels to studs	82	2 at each end
Ceiling joist to plate - toe nail each end	82	2
Roof rafter, roof truss or roof joist to plate - toe nail	82	3
Rafter plate to each ceiling joist	101	2
Rafter to joist (with ridge supported)	76	3
Rafter to joist (with ridge unsupported)	76	See Table 9.23.13.A.
Gusset plate to each rafter at peak	57	4
Column 1	2	3

Table 9.23.3.A.—(Cont'd)  
Forming Part of Article 9.23.3.4.

Nailing for Framing		
Construction Detail	Minimum Length Nails, mm	Minimum Number or Maximum Spacing of Nails
Rafter to ridge board - toe nail	57	4
- end nail	82	3
Collar tie to rafter - each end	76	3
Collar tie lateral support to each collar tie	57	2
Jack rafter to hip or valley rafter	82	2
Roof strut to rafter	76	3
Roof strut to loadbearing wall - toe nail	82	2
38 mm by 140 mm or less plank decking to support	82	2
Plank decking wider than 38 mm by 140 mm to support	82	3
38 mm edge laid plank decking to support (toe nail)	76	1
38 mm edge laid plank to each other	76	450 mm (o.c.)
Column 1	2	3

Note to Table 9.23.3.A.:

(1) See Sentence 9.23.3.4.(2)

9.23.3.5. Fastening for Sheathing or Subflooring

- (1) Fastening of sheathing and subflooring shall conform to Table 9.23.3.B.
- (2) Staples shall not be less than 1.6 mm in diameter or thickness, with not less than a 9.5 mm crown driven with the crown parallel to framing.
- (3) Roofing nails for the attachment of fibreboard or gypsum sheathing shall not be less than 3.2 mm in diameter with a minimum head diameter of 11.1 mm.

**Table 9.23.3.B.**  
Forming Part of Article 9.23.3.5.

Fasteners for Sheathing and Subflooring					
Element	Minimum Length of Fasteners for Sheathing and Subfloor Attachment, mm				Min. No. or Max. Spacing of Fasteners
	Common or Spiral Nails	Ring Thread Nails	Roofing Nails	Staples	
Plywood, waferboard or strandboard up to 10 mm thick	51	45	N/A	38	150 mm (o.c.) along edges and 300 mm (o.c.) along intermediate supports
Plywood, waferboard or strandboard from 10 mm to 20 mm thick	51	45	N/A	51	
Plywood, waferboard or strandboard 20 mm thick	57	51	N/A	N/A	
Fibreboard sheathing up to 13 mm thick	N/A	N/A	44	38	
Gypsum sheathing up to 13 mm thick	N/A	N/A	44	N/A	
Board lumber 184 mm or less wide	51	45	N/A	51	2 per support
Board lumber more than 184 mm wide	51	45	N/A	51	3 per support
Column 1	2	3	4	5	6

#### 9.23.4. Allowable Spans

##### 9.23.4.1. Spans for Joists, Rafters and Beams

(1) Except as required in Sentence (2), the spans for wood joists, rafters and beams shall conform to the spans shown in Tables A-1 to A-7 for the uniform *live loads* shown in the Tables.

(2) Spans for floor joists which are not selected from Tables A-1 to A-3 and which are required to be designed for the same loading conditions, shall not exceed the design requirements for uniform loading and vibration criteria.

##### 9.23.4.2. Steel Beams

(1) The spans for steel beams with laterally supported top flanges that support floors in 1- and 2-storey houses shall conform to Tables 9.23.4.A. or 9.23.4.B.

(2) Beams described in Sentence (1) shall be constructed of steel having a strength at least equal to Grade 300 W steel in CAN3-G40.21, "Structural Quality Steels".

(3) A beam may be considered to be laterally supported if

- (a) the wood joists bear on its top flange at intervals of 610 mm or less over its entire length,
- (b) the load being applied to this beam is transmitted through the joists, and
- (c) 19 mm × 38 mm wood strips in contact with the top flange are nailed on both sides of the beam to the bottom of the joist supported.



Table 9.23.4.A.  
Forming Part of Sentence 9.23.4.2.(1)

Maximum Spans for Steel Beams Supporting Floors in Dwelling Units, m (2)(3)							
One Storey Supported							
Section	Supported Joist Length, m (Half the sum of joist spans on both sides of the beam)						
	2.4	3.0	3.6	4.2	4.8	5.4	6.0
W150 × 22	4800 (1)	4500 (1)	4200 (1)	4000 (1)	3800 (1)	3700	3500
W150 × 30	5400 (1)	5000 (1)	4700 (1)	4500 (1)	4300 (1)	4200 (1)	4100 (1)
W200 × 21	5700 (1)	5300 (1)	5000	4600	4300	4100	3900
W150 × 37	5900 (1)	5500 (1)	5200 (1)	4900 (1)	4800 (1)	4600 (1)	4500 (1)
W200 × 27	6200 (1)	5800 (1)	5400 (1)	5200 (1)	5000 (1)	4900 (1)	4800 (1)
W200 × 31	6600 (1)	6200 (1)	5800 (1)	5600 (1)	5400 (1)	5300 (1)	5100 (1)
W250 × 24	6800 (1)	6400 (1)	5900	5500	5200	4900	4700
W200 × 36	6800 (1)	6400 (1)	6000 (1)	5800 (1)	5600 (1)	5500 (1)	5300 (1)
W200 × 42	7300 (1)	6700 (1)	6400 (1)	6200 (1)	6000 (1)	5800 (1)	5700 (1)
W200 × 46	7500 (1)	7000 (1)	6700 (1)	6400 (1)	6200 (1)	6100 (1)	5900 (1)
W250 × 33	7700 (1)	7200 (1)	6900 (1)	6600 (1)	6400 (1)	6200 (1)	6000
W250 × 39	8200 (1)	7800 (1)	7400 (1)	7200 (1)	6900 (1)	6700 (1)	6500 (1)
W310 × 31	8500 (1)	8100 (1)	7700	7200	6800	6400	6100
W310 × 39	9400 (1)	8900 (1)	8500 (1)	8200 (1)	7900 (1)	7600 (1)	7300 (1)
W310 × 45	9900 (1)	9400 (1)	9000 (1)	8600 (1)	8300 (1)	8100 (1)	7900 (1)

Table 9.23.4.A. (Cont'd)  
Forming Part of Sentence 9.23.4.2.(1)

Maximum Spans for Steel Beams Supporting Floors in Dwelling Units, m (2)(3)							
Two Storeys Supported							
Section	Supported Joist Length, m (Half the sum of joist spans on both sides of the beam)						
	2.4	3.0	3.6	4.2	4.8	5.4	6.0
W150 × 22	4000 (1)	3700	3400	3100	3000	2800	700
W150 × 30	4600 (1)	4300 (1)	4100 (1)	4000 (1)	3700	3600	3400
W200 × 21	4500	4100	3700	3500	3300	3100	3000
W150 × 37	5000 (1)	4800 (1)	4500 (1)	4400 (1)	4200 (1)	4000	3900
W200 × 27	5300 (1)	5000	4600	4300	4000	3800	3600
W200 × 31	5700 (1)	5400 (1)	5100	4700	4500	4200	4000
W250 × 24	5400	4900	4500	4200	4000	3800	3600
W200 × 36	5900 (1)	5600 (1)	5300 (1)	5100	4800	4500	4300
W200 × 42	6300 (1)	6000 (1)	5700 (1)	5500 (1)	5200	4900	4700
W200 × 46	6600 (1)	6200 (1)	5900 (1)	5700 (1)	5500	5200	5000
W250 × 33	6800 (1)	6300	5800	5400	5100	4800	4600
W250 × 39	7300 (1)	6900 (1)	6400	6000	5600	5300	5100
W310 × 31	7100	6400	5900	5500	5100	4900	4600
W310 × 39	8300 (1)	7600	7000	6500	6100	5800	5500
W310 × 45	8800 (1)	8300	7600	7100	6700	6300	6000

- Notes to Table 9.23.4.B.:
- (1) Span controlled by deflection limited to L/360.
  - (2) For widths of floor intermediate between those shown in the Table, straight line interpolation may be used in determining the maximum beam spans.
  - (3) Table is based on:
    - (a) Simply supported beam spans.
    - (b) Laterally supported top flange.
    - (c) Yield strength 300 MPa.

- (d) Live Load = 1.9 kN/sq.m-1st floor.  
                   = 1.4 kN/sq.m-2nd floor.  
 Dead Load = 1.5 kN/sq.m.

#### 9.23.4.3. Glue-Laminated Beams

(1) The spans for glued-laminated beams that support floors in 1- and 2-storey houses shall conform to Table 9.23.4.B.

(2) Beams described in Sentence (1) shall conform to 20 f-E stress grade in CSA 0122, "Glued-Laminated Timber" and to Article 4.3.1.2.

**Table 9.23.4.B.**  
 Forming Part of Sentence 9.23.4.3.(1)

Maximum Spans (m) for Glued-Laminated Floor Beams Supporting Floors in Dwellings (2)(3)(4)									
No. of Storeys Supported	Beam Width, mm	Supported Length,(1) m	Beam Depth, mm						
			228	266	304	342	380	418	456
1	80	2.4	4.32	5.04	5.76	6.48	7.20	7.92	8.64
		3.0	3.87	4.51	5.15	5.80	6.44	7.09	7.73
		3.6	3.53	4.12	4.70	5.29	5.88	6.47	7.06
		4.2	3.27	3.81	4.36	4.90	5.44	5.99	6.53
		4.8	3.06	3.57	4.07	4.58	5.09	5.60	6.11
1	130	2.4	5.51	6.43	7.35	8.26	9.18	10.10	11.02
		3.0	4.93	5.75	6.57	7.39	8.21	9.03	9.86
		3.6	4.50	5.25	6.00	6.75	7.50	8.25	9.00
		4.2	4.16	4.86	5.55	6.25	6.94	7.64	8.33
		4.8	3.90	4.54	5.19	5.84	6.49	7.14	7.79
2	80	2.4	3.28	3.83	4.37	4.92	5.47	6.01	6.56
		3.0	2.93	3.42	3.91	4.40	4.89	5.38	5.87
		3.6	2.68	3.12	3.57	4.02	4.46	4.91	5.36
		4.2	2.48	2.89	3.31	3.72	4.13	4.54	4.96
		4.8	2.32	2.71	3.09	3.48	3.86	4.25	4.64
2	130	2.4	4.18	4.88	5.57	6.27	6.97	7.66	8.36
		3.0	3.74	4.36	4.99	5.61	6.23	6.85	7.48
		3.6	3.41	3.98	4.55	5.12	5.69	6.26	6.83
		4.2	3.16	3.69	4.21	4.74	5.27	5.79	6.32
		4.8	2.96	3.45	3.94	4.43	4.93	5.42	5.91
Column 1	2	3	4	5	6	7	8	9	10

#### Notes to Table 9.23.4.B.:

- (1) Supported length means 1/2 the sum of the joist spans on both sides of the beam.
- (2) Spans are valid for any species covered by CSA 0122-M. Structural Glued Laminated Timber.
- (3) Spans are clear spans between supports.
- (4) Provide minimum 89 mm of bearing.

**9.23.4.4. Concentrated Loads or Higher Live Loads.** Where a floor is required to be designed to support a concentrated load as specified in Table 4.1.6.B., or to support a uniform *live load* in excess of those shown in the span tables, such spans shall be determined in conformance with Subsection 4.3.1.

**9.23.4.5. Concrete Topping.** Where a floor is required to support a concrete topping, the spans shown in Tables A-2 and A-3 or the spacing of the members shall be reduced to allow for the loads due to the topping.

**9.23.4.6. Heavy Roofing Material.** Where a roof is required to support an additional uniform *dead load* from roofing materials other than as specified in Section 9.27 such as concrete or clay roofing tiles, spans for framing members in Tables A-3 to A-7, A-10 and A-11 or the spacing of the members shall be reduced to allow for the loads due to the roofing.

#### 9.23.5. Notching and Drilling

**9.23.5.1. Holes Drilled in Framing Members.** Holes drilled in roof, floor or ceiling framing members shall be

not larger than one quarter the depth of the member and shall be located not less than 50 mm from the edges, unless the depth of the member is increased by the size of the hole.

**9.23.5.2. Notching of Framing Materials.** Floor, roof and ceiling framing members may be notched provided the notch is located on the top of the member within one half the joist depth from the edge of bearing and is not deeper than one third the joist depth, unless the depth of the member is increased by the size of the notch.

**9.23.5.3. Wall Studs.** Wall studs shall not be notched, drilled or otherwise damaged so that the undamaged portion of the stud is less than two thirds the depth of the stud if the stud is *loadbearing* or 40 mm if the stud is *non-loadbearing*, unless the weakened studs are suitably reinforced.

**9.23.5.4. Top Plates.** Top plates in walls shall not be notched, drilled or otherwise weakened to reduce the undamaged width to less than 50 mm unless the weakened plates are suitably reinforced.

**9.23.5.5. Roof Trusses.** Roof truss members shall not be notched, drilled or otherwise weakened unless such notching or drilling is allowed for in the design of the truss.

#### **9.23.6. Anchorage**

##### **9.23.6.1. Anchorage of Building Frames**

(1) *Building* frames shall be anchored to the *foundation* unless a structural analysis of wind and earth pressures shows anchorage is not required.

(2) Except as provided in Article 9.23.6.3., anchorage shall be provided by embedding the ends of the first floor joists in concrete, or fastening the sill plate to the *foundation* with not less than 12.7 mm diam anchor bolts spaced not more than 2.4 m o.c.

(3) Anchor bolts referred to in Sentence (2) shall be fastened to the sill plate with nuts and washers and shall be embedded not less than 100 mm in the *foundation* and so designed that they may be tightened without withdrawing them from the *foundation*.

**9.23.6.2. Anchorage of Columns and Posts.** Exterior columns and posts shall be anchored to resist uplift and lateral movement.

##### **9.23.6.3. Anchorage of Smaller Buildings**

(1) *Buildings* not more than 4.3 m in width and not more than 1 *storey* in *building height* may be anchored by means of corrosion-resistant steel rods or cables of not less than 12.7 mm diam, attached to the *building* frame near each corner of the *building* in such a manner that will develop the full strength of the rod or cable.

(2) Each rod or cable described in Sentence (1) shall be anchored to the ground by means of ground anchors having a withdrawal resistance of not less than 500 N for each metre of length of the *building*.

#### **9.23.7. Sill Plates**

**9.23.7.1. Size of Sill Plates.** Where sill plates provide bearing for the floor system they shall be not less than 38 mm by 89 mm material.

##### **9.23.7.2. Levelling of Sill Plates**

(1) Except as permitted in Sentence (1) sill plates shall be levelled by setting them on a full bed of mortar.

(2) Where the top of the *foundation* is level, sill plates referred to in Sentence (1) may be laid directly on the *foundation* provided the junction between the *foundation* and the sill plate is caulked or sealed with an acceptable gasket plate or a layer of mineral wool at least 25 mm thick before being compressed.

#### **9.23.8. Beams to Support Floors**

**9.23.8.1. Bearing for Beams.** Beams shall have even and level bearing and shall have not less than 89 mm length of bearing at end supports.

**9.23.8.2. Priming of Steel Beams.** Steel beams shall be shop primed.

##### **9.23.8.3. Built-up Wood Beams**

(1) Where a beam is made up of individual pieces of lumber that are nailed together, the individual members shall be 38 mm or greater in thickness and installed on edge.

(2) Except as permitted in Sentence (3), where individual members of a built-up beam are butted together to form a joint, the joint shall occur over a support.

(3) Where a beam is continuous over more than 1 span, individual members are permitted to be butted



together to form a joint at or within 150 mm of the end quarter points of the clear spans, provided the quarter points are not those closest to the ends of the beam.

(4) Members joined at quarter points shall be continuous over adjacent supports.

(5) Joints in individual members of beam that are located at or near the end quarter points shall not occur in adjacent members at the same quarter point and shall not reduce the effective beam width by more than half.

(6) Not more than 1 butt joint shall occur in any individual member of a built-up beam within any one span.

(7) Except as provided in Sentence (8), where 38 mm members are laid on edge to form a built-up beam, individual members shall be nailed together with a double row of nails not less than 89 mm in length, spaced not more than 450 mm apart in each row with the end nails located 100 mm to 150 mm from the end of each piece.

(8) Where 38 mm members in built-up wood beams are not nailed together as provided in Sentence (7), they shall be bolted together with not less than 12.7 mm diam bolts equipped with washers and spaced not more than 1.2 m o.c., with the end bolts located not more than 600 mm from the ends of the members.

### **9.23.9. Floor Joists**

#### **9.23.9.1. End Bearing for Joists**

(1) Except when supported on ribbon boards, floor joists shall have not less than 38 mm length of end bearing.

(2) Ribbon boards referred to in Sentence (1) shall be not less than 19 mm by 89 mm lumber let into the studs.

#### **9.23.9.2. Joists Supported by Beams**

(1) Floor joists may be supported on the tops of beams or may be framed into the sides of beams.

(2) When framed into the side of a wood beam, joists referred to in Sentence (1) shall be supported on

(a) joist hangers or other acceptable mechanical connectors, or

(b) not less than 38 mm by 64 mm ledger strips nailed to the side of the beam, except that 38 mm by 38 mm ledger strips may be used provided each joist is nailed to the beam by at least four 89 mm nails, in addition to the nailing for the ledger strip required in Table 9.23.3.A.

(3) When framed into the side of a steel beam, joists referred to in Sentence (1) shall be supported on the bottom flange of the beam or on not less than 38 mm by 38 mm lumber bolted to the web with not less than 6.3 mm diam bolts spaced not more than 600 mm apart.

(4) Joists referred to in Sentence (3) shall be spliced above the beam with not less than 38 mm by 38 mm lumber at least 600 mm long to support the flooring.

(5) Not less than a 12 mm space shall be provided between the splice required in Sentence (4) and the beam to allow for shrinkage of the wood joists.

**9.23.9.3. Restraint of Joist Bottoms.** Except as provided in Sentence 9.23.9.4.(2), bottoms of floor joists shall be restrained from twisting at each end by toe-nailing to the supports, end-nailing to the header joists or by providing continuous strapping, blocking between the joists or cross-bridging near the supports.

#### **9.23.9.4. Strapping and Bridging in Tables A1 and A2**

(1) Except as permitted in Sentence (2), where strapping only is specified in Tables A-1 and A-2, it shall be

(a) at least 19 mm by 64 mm, nailed to the underside of floor joists,

(b) located not more than 2 100 mm from each support or other rows of strapping, and

(c) fastened at each end to a sill or header.

(2) Strapping is not required if furring strips or a panel-type ceiling finish is attached directly to the joists.

(3) Where bridging is specified in Tables A-1 and A-2, it shall consist of at least 19 mm by 64 mm or 38 mm by 38 mm cross bridging located not more than 2 100 mm from each support or other rows of bridging.

(4) Where bridging plus strapping is specified in Tables A-1 and A-2, it shall consist of

(a) bridging as described in Sentence (3), together with wood strapping as described in Sentence (1), or



- (b) 38 mm solid blocking located not more than 2 100 mm from each support or other rows of bridging and securely fastened between the joists, together with wood strapping as defined in Sentence (1).

#### 9.23.9.5. Header Joists

- (1) Header joists around floor openings shall be doubled when they exceed 1.2 m in length.
- (2) The size of header joists exceeding 3.2 m in length shall be determined by calculations.

#### 9.23.9.6. Trimmer Joists

- (1) Trimmer joists around floor openings shall be doubled when the length of the header joist exceeds 800 mm.
- (2) When the header joist exceeds 2 m in length the size of the trimmer joists shall be determined by calculations.

**9.23.9.7. Support of Tail and Header Joists.** When tail joists and header joists are supported by the floor framing, they shall be supported by suitable joist hangers or nailing.

#### 9.23.9.8 Support of Walls

- (1) *Non-loadbearing* walls parallel to the floor joists shall be supported by joists beneath the wall or on blocking between the joists.
- (2) Blocking referred to in Sentence (1) for the support of *non-loadbearing* walls shall be not less than 38 mm by 89 mm lumber, spaced not more than 1.2 m apart.
- (3) *Non-loadbearing* interior walls at right angles to the floor joists are not restricted as to location.
- (4) *Loadbearing* interior walls parallel to floor joists shall be supported by beams or walls of sufficient strength to transfer safely the design loads to vertical supports.
- (5) *Loadbearing* interior walls at right angles to floor joists shall be located not more than 900 mm from the joist support when the wall does not support a floor, and not more than 600 mm from the joist support when the wall supports 1 or more floors, unless the joist size is designed to support such loads.

#### 9.23.9.9. Cantilevered Floor Joists

- (1) Floor joists supporting roof loads shall not be cantilevered more than 400 mm beyond their supports where 38 mm by 184 mm joists are used and not more than 600 mm beyond their supports where 38 mm by 235 mm or larger joists are used.
- (2) The cantilevered portions referred to in Sentence (1) shall not support floor loads from other *storeys* unless calculations are provided to show that the allowable design stresses of the cantilevered joists are not exceeded.
- (3) Where cantilevered floor joists described in Sentences (1) and (2) are at right angles to the main floor joists, the tail joists in the cantilevered portion shall
- (a) extend inward away from the cantilever support a distance equal to at least 6 times the length of the cantilever, and
- (b) be end nailed to an interior doubled header joist in conformance with Table 9.23.3.A.

#### 9.23.10. Wall Studs

**9.23.10.1. Stud Size and Spacing.** The size and spacing of studs shall conform to Table 9.23.10.A.

**Table 9.23.10.A.**  
Forming Part of Article 9.23.10.1.

Size and Spacing of Studs				
Type of Wall	Supported Loads (including dead loads)	Minimum Stud Size mm	Maximum Stud Spacing mm	Maximum Unsupported Height m
Interior	No load	38 × 38 38 × 89 flat (1)	400 400	2.4 3.6
	Attic not accessible by a stairway	38 by 64 38 by 64 flat (1) 38 by 89 38 by 89 flat (1)	600 400  600 400	3.0 2.4  3.6 2.4
	Attic accessible by a stairway plus 1 floor, Roof load plus 1 floor, Attic not accessible by stairway plus 2 floors	38 by 89	400	3.6
	Roof load, Attic accessible by a stairway, Attic not accessible by a stairway plus 1 floor	38 by 89 38 by 64	600 400	3.6 2.4
	Attic accessible by a stairway plus 2 floors, or roof load plus 2 floors	38 by 89 64 by 89 38 by 140	300 400 400	3.6 3.6 4.2
	Attic accessible by a stairway plus 3 floors, or roof load plus 3 floors	38 by 140	300	4.2
Exterior	Roof with or without attic storage	38 by 64 38 by 89	400 600	2.4 3.0
	Roof with or without attic storage plus 1 floor	38 by 89 38 by 140	400 600	3.0 3.0
	Roof with or without attic storage plus 2 floors	38 by 89 64 by 89 38 by 140	300 400 400	3.0 3.0 3.6
	Roof with or without attic storage plus 3 floors	38 by 140	300	1.8
Column 1	2	3	4	5

**Note to Table 9.23.10.A.:**

(1) See Article 9.23.10.2.

**9.23.10.2. Lateral Support.** *Loadbearing* studs shall be laterally supported by cladding or blocking.

**9.23.10.3. Orientation of Studs**

(1) Except as permitted in Sentence (2), all studs shall be placed at right angles to the wall face.

(2) Studs on the flat are permitted to be used in gable ends of roofs that contain only unfinished space or in non-loadbearing interior walls within the limits described in Article 9.23.10.1.

(3) Wall studs that support only a load from an *attic* not accessible by a stairway are permitted to be placed on the flat within the limits permitted in Article 9.23.10.1. provided

- (a) the studs are clad on not less than 1 side with plywood, waferboard or strandboard sheathing fastened to the face of the studs with a structural adhesive, and
- (b) the portion of the roof supported by the studs does not exceed 2.1 m in width.

**9.23.10.4. Continuity of Studs.** Wall studs shall be continuous for the full *storey* height except at openings and shall not be spliced except by finger-jointing with a structural adhesive.

**9.23.10.5. Support for Cladding Materials**

(1) Corners and intersections shall be designed to provide adequate support for the vertical edges of interior and exterior cladding materials, and in no instance shall exterior corners be framed with less than the equivalent of 2 studs.

(2) Where the vertical edges of interior cladding at wall intersections are supported at vertical intervals by blocking or other acceptable methods, the vertical distance between such supports shall not exceed the maximum distance between supports specified in Section 9.29.

**9.23.10.6. Studs at Sides of Openings**

(1) Except as provided in Sentence (2), studs shall be doubled on each side of openings so that the inner studs extend from the lintel to the bottom wall plate and the outer studs extend from the top wall plates to the bottom wall plate.

(2) Single studs may be used on either side of openings in non-loadbearing interior walls not required to have fire-resistance ratings provided the studs extend from the top wall plate to the bottom wall plate.

**9.23.11. Wall Plates**

**9.23.11.1. Size of Wall Plates.** Wall plates shall be not less than 38 mm thick and shall be the same width as the wall studs except that in non-loadbearing walls and in loadbearing walls where the studs are located directly over framing members, the bottom wall plate may be 19 mm thick.

**9.23.11.2. Bottom Wall Plates**

(1) A bottom wall plate shall be provided in all cases.

(2) The bottom plate in exterior walls shall not project more than one third the plate width over the support.

**9.23.11.3. Top Plates**

(1) Except as permitted in Sentences (2) to (4), no fewer than 2 top plates shall be provided in loadbearing walls.

(2) A single top plate may be used in a section of a loadbearing wall containing a lintel provided the top plate forms a tie across the lintel.

(3) A single top plate may be used in loadbearing walls where the concentrated loads from ceilings, floors and roofs are not more than 50 mm to one side of the supporting studs and in all non-loadbearing walls.

(4) The top plates may be omitted in a section of loadbearing wall containing a lintel provided the lintel is tied to the adjacent wall section with not less than 75 mm by 150 mm by 0.91 mm thick galvanized steel, or 19 mm by 89 mm by 300 mm wood splice nailed to each wall section with no fewer than three 63 mm nails.

**9.23.11.4. Joints in Top Plates**

(1) Joints in the top plates of loadbearing walls shall be staggered at least 1 stud spacing.

(2) The top plates in loadbearing walls shall be lapped or otherwise suitably tied at corners and intersecting walls.

(3) Joints in single top plates used with loadbearing walls shall be suitably tied.

(4) Ties referred to in sentences (2) and (3) shall be the equivalent of at least 75 mm by 150 mm by 0.91 mm thick galvanized steel nailed to each wall with not less than three 63 mm nails.

**9.23.12. Framing Over Openings**

**9.23.12.1. Openings in Non-Loadbearing Walls**

(1) Except as provided in Sentence (2), openings in non-loadbearing walls shall be framed with not less than 38 mm material the same width as the studs securely nailed to adjacent studs.

(2) Openings for doors in non-loadbearing walls required to be fire separations with a fire-resistance rating

shall be framed with the equivalent of at least two 38 mm thick members that are the same width as the wall plates.

#### **9.23.12.2. Openings in Loadbearing Walls**

(1) Openings in *loadbearing* walls shall be framed with lintels designed to carry the superimposed loads to adjacent studs.

(2) Except as provided in Sentence 9.23.12.3.(3), where 2 or more members are used in lintels, they shall be fastened together with not less than 82 mm nails in a double row, with nails not more than 450 mm apart in each row.

(3) Lintel members may be separated by filler pieces.

#### **9.23.12.3. Lintel Spans and Sizes**

(1) In *buildings of residential occupancy*, where the wall studs exceed 38 mm by 64 mm in size, and where the spans of supported joists do not exceed 4.9 m and the spans of trusses do not exceed 9.8 m, the spans for wood lintels shown in Table 9.23.12.A. may be used.

(2) Lintels described in Sentence (1) shall consist of a single piece of lumber 89 mm thick or 2 pieces of 38 mm thick lumber on edge.

(3) In *loadbearing* exterior and interior walls of 38 mm by 64 mm framing members, lintels shall consist of solid 64 mm thick members on edge or 38 mm thick and 19 mm thick members fastened together with not less than 63 mm nails in a double row, with nails not more than 450 mm apart in each row.

(4) Lintels referred to in Sentence (3) shall be not less than 50 mm greater in depth than those shown in Table 9.23.12.A. for the allowable spans, and shall not exceed 2.4 m in length.

(5) In *buildings of residential occupancy*, the spans shown in Table 9.23.12.B. for wood lintels supporting roof and ceiling loads and consisting of 3 or 4 pieces of 38 mm thick lumber on edge or glued-laminated timber are permitted to be used.



**Table 9.23.12.A.**  
Forming Part of Sentences 9.23.12.3.(1) and (4)

Wood Lintel Spans			
Location of Lintels	Supported Loads Including Dead Loads and Ceiling	Depth of Lintels, mm	Maximum Allowable Spans, m
Interior walls	Limited attic storage	89	1.22
		140	1.83
		184	2.44
		235	3.05
		286	3.81
	Full attic storage or roof load or limited attic storage plus 1 floor	89	0.61
		140	0.91
		184	1.22
		235	1.52
		286	1.83
	Full attic storage plus 1 floor or roof load plus 1 floor or limited attic storage plus 2 or 3 floors	89	—
		140	0.76
		184	0.91
		235	1.22
		286	1.52
	Full attic storage plus 2 or 3 floors or roof load plus 2 or three floors	89	—
		140	0.61
		184	0.91
		235	1.07
		286	1.22
Exterior walls	Roof with or without attic storage	89	1.12
		140	1.68
		184	2.24
		235	2.79
		286	3.35
	Roof with or without attic storage plus 1 floor	89	0.56
		140	1.40
		184	1.96
		235	2.24
		286	2.51
	Roof with or without attic storage plus 2 or 3 floors	89	0.56
		140	1.12
		184	1.68
		235	1.96
		286	2.24
Column 1	2	3	4

**Table 9.23.12.B.**  
Forming Part of Sentence 9.23.12.3.(5)

Built-Up Wood Lintels Supporting Roof and Ceiling Framing Loads over Large Openings														
Supported Length, m <sup>(1)</sup>	No. 1 and No. 2, Header Span, m <sup>(2)(3)</sup>						Select Structural Header Span, m <sup>(2)(3)</sup>							
Live Load - 1.0 kPa	2.4	3.0	3.6	4.2	4.8	5.4	6.0	2.4	3.0	3.6	4.2	4.8	5.4	6.0
	A	A	A	B	D	F	F	A	A	A	B	C	D	F
	A	A	B	D	F	G*	G*	A	A	A	B	D	E	G*
	A	B	D	F	G*	G*	G*	A	A	B	C	E	F	G*
	A	C	D	F	G*	G*	I*	A	A	B	D	F	G*	I*
Live Load - 1.5 kPa	2.4	3.0	3.6	4.2	4.8	5.4	6.0	2.4	3.0	3.6	4.2	4.8	5.4	6.0
	A	A	B	D	F	G*	I*	A	A	A	C	D	F	I*
	A	B	D	F	G*	I*	J*	A	A	B	C	E	F	K*
	B	D	F	G*	G*	I*	K*	A	A	C	D	F	I*	J*
	B	D	F	G*	I*	K*	M*	A	A	D	F	I*	K*	M*

Table 9.23.12.B. (Cont'd)  
Forming Part of Sentence 9.23.12.3.(5)

Built-Up Wood Lintels Supporting Roof and Ceiling Framing Loads over Large Openings

Supported Length, m <sup>(1)</sup>	No. 1 and No. 2, Header Span, m <sup>(2)(3)</sup>								Select Structural Header Span, m <sup>(2)(3)</sup>							
	2.4	3.0	3.6	4.2	4.8	5.4	6.0		2.4	3.0	3.6	4.2	4.8	5.4	6.0	
Live Load - 2.0 kPa	A	A	C	D	F	I*	K*		A	A	B	C	E	I*	K*	
	A	B	D	F	I*	K*	M*		A	B	D	D	F	I*	M*	
	B	D	F	G*	I*	K*	P*		A	B	D	F	I*	K*	P*	
	B	D	G*	G*	I*	M*	P*		A	D	F	G*	I*	M*	P*	
	C	F	G*	G*	I*				A	D	F					
	No. 1 and No. 2, Header Span, m <sup>(2)(3)</sup>								Select Structural Header Span, m <sup>(2)(3)</sup>							
	2.4	3.0	3.6	4.2	4.8	5.4	6.0		2.4	3.0	3.6	4.2	4.8	5.4	6.0	
Live Load - 2.5 kPa	A	C	E	G*	G*	I*	M*		A	A	C	D	F	I*	K*	
	B	D	F	G*	I*	K*	M*		A	B	D	F	I*	K*	M*	
	B	E	G*	G*	I*	M*	P*		A	B	D	F	I*	M*	P*	
	D	F	G*	G*	I*	P*	R*		B	D	F	G*	I*	P*	R*	
	D	G*	G*	I*	K*				B	D	F	I*	K*			

**Addendum to Table 9.23.12.B.:**

- (1) Supported joist length means half the span of trusses, roof joists or rafters supported by the header plus the length of the overhang beyond the lintel.
- (2) Table valid for all major species Groups (D Fir-L, Hem-Fir, S-P-F).
- (3) Spans are clear spans between supports. For total spans, add two bearing lengths.
- (4) Provide Minimum 89 mm end bearing.
- (5) Any size in the Table may be substituted by any size of higher rank (A lowest, B highest).

**Legend - Header Sizes**

A = 3-38 × 184	G* = 80 × 380	N* = 80 × 532
B = 4-38 × 184	H* = 130 × 304	O* = 130 × 418
C = 3-38 × 235	I* = 80 × 418	P* = 80 × 570
D = 4-38 × 235	J* = 130 × 342	Q* = 130 × 456
E = 3-38 × 286	K* = 80 × 456	R* = 80 × 608
F = 4-38 × 286	L* = 130 × 380	
	M* = 80 × 494	

\*Glued-laminated 20 f-E grade

**9.23.13. Roof and Ceiling Framing**

**9.23.13.1. Continuity of Rafters and Joists.** Roof rafters and joists and ceiling joists shall be continuous or shall be spliced over vertical supports that extend to suitable bearing.

**9.23.13.2. Framing around Openings.** Roof and ceiling framing members shall be doubled on each side of openings greater than 2 rafter or joist spacings wide.

**9.23.13.3. End Bearing Length.** The length of end bearing of joists and rafters shall not be not less than 38 mm.

**9.23.13.4. Location and Attachment of Rafters**

(1) Rafters shall be located directly opposite each other and tied together at the peak, or may be offset by their own thickness if nailed to a ridge board not less than 17.5 mm thick.

(2) Except as permitted in Sentence (3), framing members shall be connected by gusset plates or nailing at the peak in conformance with Table 9.23.3.A.

(3) Where the roof framing on opposite sides of the peak is assembled separately, such as in the case of factory-built houses, the roof framing on opposite sides may be fastened together with galvanized-steel strips at least 200 mm by 75 mm by 0.41 mm thick spaced not more than 1.2 m apart and nailed at each end to the framing by at least two 63 mm nails.

**9.23.13.5. Shaping of Rafters.** Rafters shall be shaped at supports to provide even bearing surfaces and supported directly above the exterior walls.

**9.23.13.6. Hip and Valley Rafters.** Hip and valley rafters shall be not less than 50 mm greater in depth than the common rafters and not less than 38 mm thick, actual dimension.

**9.23.13.7. Intermediate Support for Rafters and Joists**

(1) Ceiling joists and collar ties of not less than 38 mm by 89 mm lumber may be assumed to provide intermediate support to reduce the span for rafters and joists where the roof slope is 1 in 3 or greater.

(2) Collar ties referred to in Sentence (1) more than 2.4 m in length shall be laterally supported near their centres by not less than 19 mm by 89 mm continuous members at right angles to the collar ties.

(3) Dwarf walls and struts may be used to provide intermediate support to reduce the span for rafters and joists.

(4) When struts are used to provide intermediate support they shall be not less than 38 mm by 89 mm material extending from each rafter to a *loadbearing* wall at an angle of not less than 45° to the horizontal.

(5) When dwarf walls are used for rafter support, they shall be framed in the same manner as *loadbearing* walls and securely fastened top and bottom to the roof and ceiling framing to prevent over-all movement.

(6) Solid blocking shall be installed between floor joist beneath dwarf walls that enclose finished rooms.

**9.23.13.8. Ridge Support**

(1) Except as provided in Sentence (3), the ridge of the roof shall be supported by *loadbearing* wall extending from the ridge to suitable bearing or by a ridge beam of not less than 38 mm by 140 mm material.



(2) Ridge beams referred to in Sentence (1) shall be supported at intervals not exceeding 1.2 m by not less than 38 mm by 89 mm members extending vertically from the ridge to suitable bearing.

(3) When the roof slope is 1 in 3 or more, ridge support may be omitted provided the lower ends of the rafters are adequately tied to prevent outward movement.

(4) Ties required in Sentence (3) are permitted to consist of tie rods or ceiling joists forming a continuous tie for opposing rafters and nailed in accordance with Table 9.23.13.A.

(5) Ceiling joists referred to in Sentence (4) shall be fastened together with at least 1 more nail per joist splice than required for the rafter to joist connection shown in the Table 9.23.13.A.

(6) Members referred to in Sentence (5) are permitted to be fastened together either directly or through a gusset plate.

**Table 9.23.13.A.**  
Forming Part of Sentences 9.23.13.8.(4) and (5)  
**Rafter-to-Joist Nailing**  
(Minimum Number of Nails not less than 76 mm Long)  
(Unsupported Ridge)

Rafter-to-Joist Nailing (Minimum Number of Nails not less than 76 mm Long) (Unsupported Ridge)													
Roof Slope	Spacing mm	Rafter Tied to Every Joist			Rafter Tied to Joist every 1.2 m								
		Building Width up to 8 m		Building Width up to 9.8 m	Building Width up to 8 m		Building Width up to 9.8 m						
		Roof Snow Load, kPa											
		1.0 or less	1.5		2.0 or more	1.0 or less		1.5	2.0 or more				
1 in 3	400	4	5	6	5	7	8	11	—	—	—	—	
	600	6	8	9	8	—	—	11	—	—	—	—	
1 in 2.4	400	4	4	5	5	6	7	7	10	—	—	—	
	600	5	7	8	7	9	11	7	10	—	—	—	
1 in 2	400	4	4	4	4	4	5	6	8	9	—	—	
	600	4	5	6	5	7	8	6	8	9	—	—	
1 in 1.71	400	4	4	4	4	4	4	5	7	8	9	11	
	600	4	4	5	5	6	7	5	7	8	9	11	
1 in 1.33	400	4	4	4	4	4	4	4	5	6	6	7	
	600	4	4	4	4	4	5	4	5	6	6	7	
1 in 1	400	4	4	4	4	4	4	4	4	4	4	5	
	600	4	4	4	4	4	4	4	4	4	4	5	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14

**9.23.13.9. Restraint of Joist Bottoms.** Roof joists supporting a finished ceiling, other than plywood, wafer-board or strandboard, shall be restrained from twisting along the bottom edges by means of furring, blocking, cross bridging or strapping conforming to Article 9.23.9.4.

**9.23.13.10. Ceiling Loads Supporting Roof Loads**

- (1) Except as permitted in Sentence (2), ceiling joists supporting part of the roof load from the rafters shall be not less than 25 mm greater in depth than required for ceiling joists not supporting part of the roof load.
- (2) When the roof slope is 1 in 4 or less, the ceiling joist sizes referred to in Sentence (1) shall be determined from the span tables for roof joists.

**9.23.13.11. Wood Roof Trusses**

- (1) Except for roof trusses constructed of Poplar, Eastern White Pine, Western White Pine, Red Pine, Western Red Cedar and Eastern White Cedar, the member sizes for Howe or Fink type wood roof trusses spaced not more than 600 mm o.c. which are to be supported at or near their ends may be determined in conformance with Tables A-10 and A-11 provided such trusses conform to the requirements of Sentences (3) to (7).
- (2) The joint connections used in such trusses described in Sentence (1) shall be designed in conformance with the requirements in Subsection 4.3.1.
- (3) Where a roof truss described in Sentence (1) supports a ceiling, and the unsupported length of the bottom chord between the truss panel points exceeds 3.05 m, the bottom chord shall be at least 38 mm by 114 mm in size.
- (4) Where the unsupported length of the bottom chord described in Sentence (3) exceeds 3.66 m between the panel points, the bottom chord shall be at least 38 mm by 140 mm in size.
- (5) Where the length of compression web members in roof trusses described in Sentence (1) exceeds 1.83 m, such web members shall be provided with continuous bracing to prevent buckling.
- (6) Bracing required in Sentence (5) shall consist of not less than 19 mm by 89 mm lumber nailed at right angles to the web members near their centres with at least two 63 mm nails for each member.
- (7) Web members referred to in Sentence (5) shall be not less than 38 mm by 89 mm lumber of not less than No. 2 grade.
- (8) Roof trusses that are not designed in conformance with Sentence (1) shall
  - (a) be capable of supporting a total ceiling load (*dead load* plus *live load*) of 0.5 kPa plus two and two-thirds times the design roof load for 24 h, and
  - (b) not exceed the deflections shown in Table 9.23.13.B. when loaded with the ceiling load plus one and one-third times the design roof snow load for 1 h.
- (9) Testing for lumber roof trusses referred to in Sentence (8) shall be in conformance with CSA S307, "Load Test Procedure for Wood Roof Trusses for Houses and Small Buildings," except that the unsymmetrical loading requirement in Clause 7.7 of that standard shall not apply.

**Table 9.23.13.B.**  
Forming Part of Sentence 9.23.13.11.(8)

Maximum Roof Truss Deflections		
Truss Span	Type of Ceiling	Maximum Deflection
4.3 m or less	Plaster or gypsum board	1/360 of the span
	Other than plaster or gypsum board	1/180 of the span
over 4.3 m	Plaster or gypsum board	1/360 of the span
	Other than plaster or gypsum board	1/240 of the span
Column 1	2	3

**9.23.14. Subflooring**

**9.23.14.1. Subflooring Required.** Subflooring shall be provided beneath finish flooring where the finish flooring does not have adequate strength to support the design loads.

**9.23.14.2. Material Standards**

- (1) Wood-based panels for subfloors shall conform to
- (a) CSA 0121, "Douglas Fir Plywood,"
  - (b) CSA 0151, "Canadian Softwood Plywood,"
  - (c) CSA 0153, "Poplar Plywood,"
  - (d) CAN3-0437.0, "Waferboard and Strandboard," or
  - (e) CAN/CSA 0325.0, "Construction Sheathing."
- (2) Particleboard subflooring may be used only where a *building* is constructed in a factory so that the subfloor will not be exposed to the weather.
- (3) Subflooring described in Sentence (2) shall conform to grade N-1 or N-2 in CAN3-0188.1, "Interior Mat-Formed Wood Particleboard."
- (4) Subflooring described in Sentence (2) shall have its upper surface and all edges treated to restrict water absorption where the subfloor is used in bathrooms, kitchens, laundry rooms or other areas subject to periodic wetting.

**9.23.14.3. Edge Support.** Where the edges of panel-type subflooring are required to be supported, such support shall consist of tongue-and-groove panel edges or not less than 38 mm by 38 mm blocking securely nailed between framing members.

**9.23.14.4. Direction of Installation**

- (1) Plywood subflooring shall be installed with the surface grain at right angles to the joists and with joints parallel to floor joists staggered.
- (2) Waferboard and strandboard subflooring conforming to 0-1 and 0-2 grades in CAN3-0437.0 shall be installed with the direction of face orientation at right angles to the joists and with the joints parallel to floor joists staggered.

**9.23.14.5. Subfloor Thickness or Rating**

- (1) Except as provided in Sentences (2) and (3), subfloors shall conform to Table 9.23.14.A. or Table 9.23.14.B.

**Table 9.23.14.A.**  
Forming Part of Sentences 9.23.14.5.(1) and 9.23.15.6.(1)

Thickness of Subflooring, mm				
Maximum Spacing of Supports, mm	Plywood and 0-2 Grade Waferboard and Strandboard	Waferboard and Strandboard R-1 and 0-1 Grades	Particle-board	Lumber
400	15.5	15.9	15.9	17.0
500	15.5	15.9	19.0	19.0
600	18.5	19.0	25.4	19.0
Column 1	2	3	4	5



**Table 9.23.14.B.**  
Forming Part of Sentences 9.23.14.5.(1) and 9.23.15.6.(1)

Rating for Subfloor when Applying CSA 0325.0		
Maximum Spacing of Supports, mm	Panel Mark	
	Subfloor	Used With Panel-Type Underlay
400	1F16	2F16
500	1F20	2F20
600	1F24	2F24
Column 1	2	3

(2) Where the finished flooring consists of not less than 19 mm matched wood strip flooring laid at right angles to joists, spaced not more than 600 mm o.c., subflooring shall be permitted to consist of not less than

- (a) 12.5 mm thick plywood,
- (b) 12.5 mm thick waferboard or strandboard conforming to 0-2 grade, or
- (c) 12.7 mm thick waferboard or strandboard conforming to grades R-1 or 0-1.

(3) Except where the flooring consists of ceramic tiles applied with adhesive, where a separate panel-type underlay or concrete topping is applied to a subfloor on joists spaced more than 400 mm o.c., the subfloor may consist of not less than

- (a) 12.5 mm thick plywood,
- (b) 12.5 mm waferboard or strandboard conforming to 0-2 grade, or
- (c) 12.7 mm waferboard or strandboard conforming to grades R-1 or 0-1.

**9.23.14.6. Annular Grooved Nails.** When resilient flooring is applied directly to a waferboard, particleboard or plywood subfloor, the subfloor shall be fastened to the supports with annular grooved nails.

#### **9.23.14.7. Lumber Subflooring**

- (1) Lumber subflooring shall be laid at an angle of not less than 45° to the joists.
- (2) Lumber subflooring shall be fully supported at the ends on solid bearing.
- (3) Lumber shall be of uniform thickness and not more than 184 mm wide.

#### **9.23.15. Roof Sheathing**

##### **9.23.15.1. Material Standards**

- (1) Wood-based panels used for roof sheathing shall conform to the requirements of
  - (a) CSA 0121, "Douglas Fir Plywood,"
  - (b) CSA 0151, "Canadian Softwood Plywood,"
  - (c) CSA 0153, "Poplar Plywood,"
  - (d) CAN3-0437.0, "Waferboard and Strandboard," or
  - (e) CAN/CSA 0325.0, "Construction Sheathing."

##### **9.23.15.2. Direction of Installation**

- (1) Plywood roof sheathing shall be installed with the surface grain at right angles to the roof framing.
- (2) Waferboard and strandboard roof sheathing conforming to 0-1 and 0-2 grades in CAN3-0437.0 shall be installed with the direction of face orientation at right angles to the roof framing members.

**9.23.15.3. Gap Between Sheets.** Waferboard and plywood roof sheathing shall be installed with at least a 3 mm gap between sheets and with joints parallel to roof joists staggered.

**9.23.15.4. Lumber Roof Sheathing.** Lumber roof sheathing shall not be more than 286 mm wide and shall be applied so that all ends are supported with end joints staggered.

**9.23.15.5. Edge Support**

(1) Where panel-type roof sheathing requires edge support, the support shall be not less than 38 mm by 38 mm blocking securely nailed between framing members or metal H clips.

(2) The supports referred to in Sentence (1) are not required when tongued-and-grooved edged plywood is used.

**9.23.15.6. Thickness or Rating**

(1) The thickness or rating of roof sheathing on a flat roof used as a walking deck shall conform to the requirements in Table 9.23.14.A. or Table 9.23.14.B. for subfloors.

(2) The thickness or rating of roof sheathing on a roof not used as a walking deck shall conform to Table 9.23.15.A. or Table 9.23.15.B.

**Table 9.23.15.A.**  
Forming Part of Sentence 9.23.15.6.(2)

Minimum Thickness of Roof Sheathing, mm					
Maximum Spacing of Supports, mm	Plywood and 0-2 Grade Waferboard and Strandboard		Waferboard and Strandboard R-1 and 0-1 Grades		Lumber
	Edges Supported	Edges Unsupported	Edges Supported	Edges Unsupported	
300	7.5	7.5	9.5	9.5	17.0
400	7.5	7.5	9.5	11.1	17.0
600	9.5	12.5	11.1	12.7	19.0
Column 1	2	3	4	5	6

**Table 9.23.15.B.**  
Forming Part of Sentence 9.23.15.6.(2)

Rating for Roof Sheathing When Applying CSA 0325.0		
Maximum Spacing of Supports, mm	Panel Mark	
	Edges Supported	Edges Unsupported
400	2R16	1R16
500	2R20	1R20
600	2R24	1R24
Column 1	2	3

(3) Asphalt-coated or asphalt-impregnated fibreboard at least 11.1 mm thick conforming to CSA A247, "Insulating Fibreboard" may be used as a roof sheathing over supports spaced not more than 400 mm o.c. provided the roofing consists of a continuous sheet of galvanized steel of at least 0.33 mm in thickness or a continuous sheet of aluminum of at least 0.61 mm in thickness.

(4) All edges of sheathing described in Sentence (3) shall be supported by blocking or framing.

**9.23.16. Wall Sheathing**

**9.23.16.1. Required Sheathing.** Exterior walls and gable ends shall be sheathed when the *exterior cladding* requires intermediate fastening between supports or if the *exterior cladding* requires solid backing.

**9.23.16.2. Thickness, Rating and Material Standards.** Where wall sheathing is required, it shall conform to Table 9.23.16.A. or Table 9.23.16.B.

Table 9.23.16.A.  
Forming Part of Article 9.23.16.2.

Wall Sheathing Thickness and Specifications			
Type of Sheathing	Minimum Thickness mm, (1)		Material Standards
	With Supports 400 mm o.c.	With Supports 600 mm o.c.	
Lumber	17.0	17.0	See Table 9.3.2.A.
Fibreboard (insulating)	9.5	11.1	CAN A247
Gypsum sheathing	9.5	12.7	CSA A82.27
Plywood (exterior type)	6.0	7.5	CSA 0121 CSA 0151 CSA 0153
Waferboard and Strandboard Grade 0-2	6.0	7.5	CAN3-0437.0
Waferboard and Strandboard Grade R-1 and 0-1	6.35	7.9	CAN3-0437.0
Expanded polystyrene Types 1 and 2	38	38	CAN/CGSB-51.20-M
Expanded polystyrene Types 3 and 4	25	25	CAN/CGSB 51.20-M
Urethane and Isocyanurate Types 1,2 and 4	38	38	CGSB 51-GP-21M
Urethane and Isocyanurate Type 3	25	25	CGSB 51-GP-21M
Urethane and Isocyanurate Types 1 and 2 faced	25	25	CAN/CGSB-51.26-M
Phenolic, faced	25	25	CAN/CGSB-51.25-M
Rigid Board	25	25	CSA A101
Mineral Fibre, Type 2			
Column 1	2	3	4

Note to Table 9.23.16.A.:

(1) See also Sentences 9.27.5.1.(2) to (4).

Table 9.23.16.B.  
Forming Part of Article 9.23.16.2.

Rating For Wall Sheathing When Applying CSA O325.0	
Maximum Spacing of Supports, mm	Panel Mark
400	W16
500	W20
600	W24
Column 1	2

9.23.16.3. Attachment of Siding to Sheathing

(1) Gypsum sheathing, rigid insulation and fibreboard shall not be used for the attachment of siding materials.

(2) Nails used in attaching the materials listed in Sentence (1) shall be not less than 3.2 mm diam with a minimum head diameter of 11 mm.

9.23.16.4. Lumber Sheathing. Lumber wall sheathing shall be applied so that all ends are supported with end joints staggered.

**9.23.16.5. Joints in Panel-Type Sheathing**

(1) Panel-type sheathing board shall be applied so that vertical joints are staggered if the sheathing is applied horizontally.

(2) A gap of not less than 2 mm shall be left between sheets of plywood, waferboard or fibreboard.

**9.23.16.6. Mansard Style Roofs.** Where the bottom portions of mansard style roofs are vented, the vertical framing members behind the sloping portions shall be considered on the same basis as exterior wall studs and shall conform to the appropriate requirements in Subsection 9.23.17.

**9.23.17. Wall Sheathing Paper.**

**9.23.17.1. Material Standard.** Sheathing paper shall conform to CAN2-51.32, "Sheathing, Membrane Breather Type".

**9.23.17.2. Sheathing Paper Beneath Stucco.** Tar-saturated felts or papers shall not be used as a sheathing paper beneath stucco.

**9.23.17.3. Sheathing Paper**

(1) Except as provided in Sentences (3) and (6), not less than 1 layer of sheathing paper shall be applied beneath siding, stucco or masonry veneer.

(2) Sheathing paper required in Sentence (1) shall be applied so that joints are lapped at least 100 mm, and if applied horizontally, the upper sheets shall overlap the lower sheets.

(3) Except as provided in Sentence (6), where no sheathing is used with masonry veneer or other siding, not less than 2 layers of sheathing paper shall be applied beneath the veneer or siding.

(4) All joints in the sheathing paper required in Sentence (3) shall occur over framing, and the paper shall be fastened to the framing with roofing nails or staples spaced not more than 150 mm along the edges of the outer layer of sheathing paper.

(5) Wall sheathing may be used in lieu of 1 layer of sheathing paper required in Sentence (3), and the thickness need not conform to Table 9.23.16.A.

(6) Sheathing paper may be omitted beneath siding when the joints in the siding are formed to effectively prevent the passage of wind and rain in conformance with Sentence (7) or (9) as applicable.

(7) Siding consisting of sheets of plywood, hardboard, waferboard or asbestos cement is considered to meet the requirements in Sentence (6) provided the siding is applied so that all edges are directly supported by framing and the vertical joints between adjacent sheets covered with battens or shiplapped or otherwise matched to provide weathertight joints.

(8) Vertical joints between sheets described in Sentence (7) shall be caulked.

(9) Metal siding consisting of sheets of metal is considered to meet the requirements of Sentence (7) where the joints between sheets are of the locked seam type.

**9.23.18. Bracing****9.23.18.1. Required Bracing**

(1) Except as provided in Sentence (2), each exterior wall in each storey shall be braced with not less than one diagonal brace conforming to Article 9.23.18.2.

(2) Bracing is not required where the walls have an interior finish conforming to the requirements of Section 9.29, or if the walls are clad with panel type siding, diagonal lumber or plywood, waferboard, strandboard, gypsum or fibreboard sheathing.

**9.23.18.2. Material and Installation**

(1) Where bracing is required, it shall consist of at least 19 mm by 89 mm wood members applied to the studs at an angle of approximately 45° to the horizontal, extending the full height of the wall on each storey.

(2) Bracing described in Sentence (1) shall be nailed to each stud and wall plate with not less than two 63 mm nails.



Section 9.24 Sheet Steel Stud Wall Framing

9.24.1. General

9.24.1.1. Application

- (1) This Section applies to sheet steel studs for use in non-loadbearing exterior and interior walls.
- (2) Where loadbearing steel studs are used, they shall be designed in conformance with Part 4.

9.24.1.2. Material Standards. Steel studs and runners shall conform to CAN/CGSB 7.1-M, "Cold Formed Steel Framing Components."

9.24.1.3. Metal Thickness. Metal thickness specified in this Section shall be the minimum base steel thickness exclusive of coatings.

9.24.1.4. Screws. Screws for the application of cladding materials to steel studs, runners and furring channels shall conform to ASTM C1002, "Steel Drill Screws for the Application of Gypsum Board".

9.24.1.5. Cladding Required. Steel stud framing shall have cladding on both sides, fastened with screws spaced at the appropriate spacing described in Section 9.29., penetrating not less than 10 mm through the metal.

9.24.2. Size of Framing

9.24.2.1. Size and Spacing of Studs in Interior Walls. Except as required in Articles 9.24.2.3. and 9.24.2.4., the size and spacing of steel studs for non-loadbearing interior walls shall conform to Table 9.24.2.A.

Table 9.24.2.A.  
Forming Part of Article 9.24.2.1.

Steel Studs for Non-Loadbearing Interior Walls		
Minimum Stud Size, mm	Maximum Stud Spacing, mm	Maximum Wall Height, m
30 x 40	400	3.0
	600	2.7
30 x 63	400	4.0
	600	3.6
30 x 91	400	5.2
	600	4.9
Column 1	2	3

9.24.2.2. Thickness of Studs. Except as required in Article 9.24.2.4., steel studs in non-loadbearing interior walls shall have a metal thickness of not less than 0.46 mm.

9.24.2.3. Runners. Runners for interior and exterior non-loadbearing walls shall have a thickness of not less than the thickness of the corresponding studs and shall have not less than 30 mm flanges.

9.24.2.4. Openings in Fire Separations

- (1) Where openings for doors in non-loadbearing fire separations required to have a fire-resistance rating do not exceed 1 200 mm in width, the width of steel studs shall be at least 63 mm, and have a metal thickness of at least 0.50 mm.
- (2) Where openings described in sentence (1) exceed 1 200 mm in width, the stud width shall be not less than 91 mm, and shall have a metal thickness of at least 0.85 mm.
- (3) The distance to the first stud beyond the jamb of any door opening referred to in Sentence (1) in a fire separation required to have a fire-resistance rating shall not exceed 400 mm.
- (4) Where the distance between the framing over the opening in Sentence (1) and the top runner exceeds 400 mm in such walls, intermediate support shall be installed at intervals of not more than 400 mm above the opening.

9.24.2.5. Size and Spacing of Studs in Exterior Walls. The size and spacing of non-loadbearing steel studs for exterior walls shall conform to Table 9.24.2.B.

**Table 9.24.2.B.**  
Forming Part of Article 9.24.2.5.

Steel Studs for Non-Loadbearing Exterior Walls				
Minimum Stud Size, mm	Minimum Metal Thicknesses, mm	Maximum Stud Length, m		
		Spacing of Studs		
		300 mm (o.c.)	400 mm (o.c.)	600 mm (o.c.)
30 × 91	0.53	3.0	2.4	—
30 × 91	0.69	3.3	2.7	2.4
30 × 91	0.85	3.6	3.0	2.7
30 × 91	1.0	4.0	3.3	3.0
Column 1	2	3	4	5

### 9.24.3. Installation

#### 9.24.3.1. Installation of Runners

- (1) Runners shall be provided at the tops and bottoms of walls.
- (2) Runners required in Sentence (1) shall be securely attached to the *building* at approximately 50 mm from the ends, and at intervals of not more than 600 mm o.c. for interior walls and 300 mm o.c. for exterior walls.
- (3) Fasteners used for attachment described in Sentence (1) shall consist of the equivalent of 63 mm nails or 24 mm screws.
- (4) Studs at openings and which are not full wall height shall be supported by a runner at the ends of the studs, securely fastened to the full length studs at the sides of the opening.

#### 9.24.3.2. Fire-Rated Walls

- (1) Steel studs used in walls required to have a *fire-resistance rating* shall be installed so that there is at least a 12 mm clearance between the top of the stud and the top of the runner to allow for expansion in the event of fire.
- (2) Except as provided in Article 9.24.3.6., studs in walls referred to in Sentence (1) shall not be attached to the runners in a manner that will prevent such expansion.
- (3) Framing above doors with steel door frames in non-loadbearing *fire separations* required to have a *fire-resistance rating* shall consist of 2 runners on the flat fastened back to back.
- (4) The upper runner required in Sentence (3) shall be bent at each end to extend upwards at least 150 mm and fastened to the adjacent studs.
- (5) A gypsum board filler piece, the width and length of the runner, shall be provided between the door frame referred to in Sentence (3) and the adjacent runner.

**9.24.3.3. Orientation of Studs.** Steel studs shall be installed with webs at right angles to the wall face and, except at openings, shall be continuous for the full wall height.

**9.24.3.4. Support for Cladding Materials.** Corners and intersections of walls shall be constructed to provide support for the cladding materials.

#### 9.24.3.5. Framing around Openings

- (1) Studs shall be doubled on each side of every opening where such openings involve more than 1 stud space, and shall be tripled where the openings in exterior walls exceed 2.4 m in width.
- (2) Studs described in Sentence (1) shall be suitably fastened together to act as a single structural unit in resisting transverse loads.

#### 9.24.3.6. Attachment of Studs to Runners

- (1) Studs shall be attached to runners by screws, crimping, welding or other suitable method around wall openings, and elsewhere where necessary to keep the studs in alignment during construction.

(2) Where clearance for expansion is required in Article 9.24.3.2., such attachment required in Sentence (1) shall be applied between studs and bottom runners only.

#### **9.24.3.7. Openings for Fire Dampers**

(1) Openings for *fire dampers* in *non-loadbearing fire separations* required to have a *fire-resistance rating* shall be framed with double studs on each side of the opening.

(2) The sill and header for openings described in Sentence (1) shall consist of a runner track with right angle bends made on each end so as to extend 300 mm above the header or below the sill and fastened to the studs.

(3) The openings described in Sentence (1) shall be lined with a layer of gypsum board at least 12.7 mm thick fastened to stud and runner webs.

### **Section 9.25 Thermal Insulation and Control of Condensation**

#### **9.25.1. Scope**

**9.25.1.1. Application.** This Section applies to the application of thermal insulation and measures to control condensation for *buildings of residential occupancy* intended for use on a continuing basis during the winter months.

**9.25.1.2. Insulation of Ducts.** Insulation of heating and ventilating ducts shall conform to Sections 9.32 and 9.33.

**9.25.1.3. Thermal Design.** The requirements for thermal insulation in this Section need not be met where thermal design is provided in accordance with Section 9.38.

#### **9.25.2. General**

**9.25.2.1. Required Insulation.** All walls, ceilings and floors separating heated space from unheated space, the exterior air or the exterior soil shall be provided with sufficient thermal insulation to prevent moisture condensation on their room side during the winter and to ensure comfortable conditions for the occupants.

**9.25.2.2. Barrier to Air Leakage.** Thermally insulated wall, ceiling and floor assemblies shall be constructed so as to provide a continuous barrier to leakage of air from the interior of the building into wall spaces, floor spaces or *attic or roof spaces*.

**9.25.2.3. Barrier to Vapour Diffusion.** Except as provided in Article 9.25.6.3., thermally insulated wall, ceiling and floor assemblies shall be constructed so as to provide a barrier to diffusion of water vapour from the interior into wall spaces, floor spaces or *attic or roof spaces*.

**9.25.2.4. Location of Insulation.** Insulation shall be provided between heated and unheated spaces and between heated spaces and the exterior, and around the perimeter of concrete slabs-on-ground.

**9.25.2.5. Reflective Surfaces.** Reflective surfaces of insulating materials shall not be considered in calculating the thermal resistance of *building assemblies*.

**9.25.2.6. Insulation around Concrete Slabs-on-Ground.** Insulation around concrete slabs-on-ground shall extend not less than 600 mm below exterior ground level.

#### **9.25.2.7. Minimum Thermal Resistance**

(1) Except as permitted in Sentences (2), (3) and (4) the minimum thermal resistance of insulation shall conform to Table 9.25.2.A.

**Table 9.25.2.A.**  
Forming Part of Sentence 9.25.2.7.(1)

<b>Minimum Thermal Resistance of Insulation to be Installed Based on Degree Day Zones</b>		
<i>Building Element Exposed To the Exterior or to Unheated Space</i>	<b>RSI Value Required</b>	
	Zone 1 Less than 5000	Zone 2 5000 or more
Ceiling below <i>attic</i> or <i>roof space</i>	5.4	6.7
Roof assembly without <i>attic</i> or <i>roof space</i>	3.52	3.52
Wall other than <i>foundation</i> wall	3.25	3.87
<i>Foundation</i> walls enclosing heated space	2.11	2.11
Floor, other than slab-on-ground	4.4	4.4
Slab-on ground containing pipes or heating ducts	1.76	1.76
Slab-on-ground not containing pipes or heating ducts	1.41	1.41
Column 1	2	3

**Note to Table 9.25.2.A.:**

(1) Number of degree days for individual locations are contained in Table 2.5.1.A.

(2) Except for doors on enclosed unheated vestibules and cold cellars, and except for glazed portions of doors, all doors separating heated space from unheated space shall have a thermal resistance of not less than RSI 0.7 where a storm door is not provided.

(3) All sliding glass doors separating heated space from unheated space shall have a thermal resistance of not less than  $0.30 \text{ m}^2 \text{ }^\circ\text{C/W}$ .

(4) All glazing that separates heated space from unheated space shall have a thermal resistance of not less than  $0.30 \text{ m}^2 \text{ }^\circ\text{C/W}$ .

(5) The thermal resistance values in Table 9.25.2.A. for exposed roofs or ceilings may be reduced near eaves to the extent made necessary by the roof slope and required ventilation clearances, except that the thermal resistance of insulation at the location directly above the inner surface of the exterior wall shall be at least RSI 2.1.

(6) Where an enclosed unheated space is separated from a heated space by glazing, the unheated enclosure may be considered to provide a thermal resistance of  $0.16 \text{ m}^2 \text{ }^\circ\text{C/W}$ .

**9.25.2.8. Minimum Thermal Resistance for Other Construction**

(1) Log wall construction and post, beam and plank construction shall have a minimum thermal resistance of RSI-2.1 for the total assembly.

(2) The thermal resistance value in Sentence (1) for the total wall assembly may be reduced to not less than RSI 1.61, provided that

- (a) the thermal resistance of insulation for exposed roof or ceiling required in Table 9.25.2.A. shall be increased by an amount equivalent to the reduction permitted in this Sentence, and
- (b) for log walls, the logs are machined squared having tongue-and groove or splined joints.

**9.25.3. Materials**

**9.25.3.1. Insulation Material Standards**

(1) Except as required in Sentence (2), thermal insulation shall conform to the requirements of

- (a) CSA A101, "Thermal Insulation, Mineral Fibre, for Buildings,"
- (b) CAN/CSA A247-M, "Insulating Fibreboard,"
- (c) CAN/CGSB 51.20-M, "Thermal Insulation, Expanded Polystyrene, Boards and Pipe Covering"
- (d) CGSB 51-GP-21M, "Thermal Insulation, Urethane and Isocyanurate, Unfaced,"
- (e) CAN/CGSB 51.25-M, "Thermal Insulation, Phenolic, Faced,"



- (f) CAN/CGSB 51.26-M, "Thermal Insulation, Urethane and Isocyanurate, Board, Faced,"
- (g) CAN/CGSB 51-GP-27M, "Thermal Insulation, Polystyrene, Loose Fill," or
- (h) CGSB 51-GP-60M, "Thermal Insulation, Cellulose Fibre, Loose Fill,"

(2) The *flame-spread ratings* requirements contained in the standards listed in Sentence (1) shall not apply.

**9.25.3.2. Insulation in Contact with the Ground.** Insulation in contact with the ground shall be inert to the action of soil and water and be such that its insulative properties are not significantly reduced by moisture.

**9.25.3.3. Type 1 Polystyrene Insulation.** Type 1 expanded polystyrene insulation as described in CAN/CGSB 51.20-M, "Thermal Insulation, Expanded Polystyrene" shall not be used in contact with the ground or as roof insulation applied above the roofing membrane.

#### **9.25.3.4. Air Barrier Materials**

(1) Air barrier protection shall possess the necessary characteristics to provide an effective barrier to air infiltration under differential air pressure due to stack effect, mechanical systems or wind.

(2) Polyethylene sheet used to provide the air barrier protection required in Article 9.25.2.2. shall conform to CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet for Use in Building Construction."

#### **9.25.3.5. Vapour Barrier Materials**

(1) Membrane-type polyethylene vapour barriers shall conform to the requirements of CAN/CGSB 51.34-M, "Vapour Barrier, Polyethylene Sheet for Use in Building Construction".

(2) Membrane-type vapour barriers other than polyethylene shall conform to CAN2-51.33-M, "Vapour Barrier, Sheet, for Use in Building Construction."

(3) Vapour barriers conforming to Sentence (2) shall be type 1 when used where a high resistance to vapour movement is required, such as in wall constructions that incorporate *exterior cladding* or sheathing having a low water vapour permeance.

#### **9.25.4. Installation of Insulation**

##### **9.25.4.1. General**

(1) Insulation shall be installed so that there is a reasonably uniform insulating value over the entire face of the insulated area.

(2) Insulation shall be applied to the full width and length of the space between furring or framing.

**9.25.4.2. Batt-Type Insulation.** Batt-type insulation manufactured with no membrane on either face shall be installed so that at least 1 face is in full and continuous contact with cladding, sheathing or other air-impermeable membrane.

##### **9.25.4.3. Loose-Fill Insulation**

(1) Except as provided in Sentences (2) and (3), loose-fill insulation shall be used on horizontal surfaces only.

(2) Water repellent loose-fill insulation may be used between the outer and inner wythes of masonry cavity walls.

(3) Loose-fill insulation may be used in wood frame walls of existing *buildings*.

(4) Where soffit venting is used, measures shall be taken to prevent loose-fill insulation from causing blockage of soffit vents.

**9.25.4.4. Insulation in Crawl Spaces.** Insulation on the interior of *foundation* walls enclosing a crawl space shall be applied so that there is not less than a 50 mm clearance above the crawl space floor if the insulation is of a type that may be damaged by water.

**9.25.4.5. Insulation around Slabs-on Grade.** Insulation around concrete slabs-on-grade shall be located so that heat from the *building* is not restricted from reaching the ground beneath the perimeter where exterior walls are not supported by footings extending below frost level.

**9.25.4.6. Insulation Exposed to Weather.** Where insulation is exposed to the weather and subject to mechanical damage, it shall be protected with not less than 6 mm asbestos-cement board, 6 mm preservative-treated plywood or 12 mm cement parging on wire lath applied to the exposed face and edge.

**9.25.4.7. Mechanical Damage**

(1) Except as permitted in Sentence (2) insulation and vapour barrier in a *dwelling unit* shall be protected from mechanical damage by a covering of gypsum board, plywood, particleboard, waferboard or hardboard.

(2) In unfinished *basements*, the protection required in Sentence (1) need not be provided for mineral fibre insulation provided it is covered with polyethylene vapour barrier of at least 0.15 mm in thickness.

(3) Foamed plastics shall be protected as described in Article 9.10.16.12.

**9.25.4.8. Factory-Built Buildings.** Insulation in factory-built *buildings* shall be installed so that it will not become dislodged during transportation.

**9.25.4.9. Extent of Insulation for Foundation Walls**

(1) The upper part of *foundation* walls enclosing heated space shall be insulated from the underside of the subfloor to not less than 600 mm below the finished ground level.

(2) If a *foundation* wall is constructed of hollow masonry units, one or more of the following shall be used to control convection currents in the core spaces,

- (a) filling the core spaces,
- (b) at least one row of semi-solid blocks at or below *grade*, or
- (c) other similar methods.

**9.25.4.10. Protection for Insulation installed on the Inside Face of Foundation Walls**

(1) Insulation to be installed on the inside face of *foundation* walls below ground level shall be protected from moisture by a moisture barrier or shall be inherently impermeable to moisture and, if such insulation is of the batt-type, it shall be protected from moisture by a moisture barrier and a vapour barrier.

(2) Insulation on the inside of *foundation* walls described in Sentence (1) shall be installed tightly against the *foundation* wall and shall be sealed at the top and at the bottom to reduce air circulation.

**9.25.5. Installation of Air Barrier Systems****9.25.5.1. Joints in Air Barrier Protection**

(1) Where the air barrier system consists of an air-impermeable panel-type material, all joints shall be sealed to prevent air leakage.

(2) Where the air barrier protection is formed of flexible sheet material, all joints shall be

- (a) sealed, or
- (b) lapped at least 100 mm and clamped, such as between framing members, furring or blocking and rigid panels.

**9.25.5.2. Air Barrier Protection with Low Permeability.** Where the air barrier protection consists of a material with a water vapour permeance less than the maximum permitted Type 2 vapour barriers in Clause 9.25.3.5.(1)(b), it shall be installed in a location where the temperature will not be below the dew point of the interior air when the temperature is 10°C above the 2.5 per cent January design temperature.

**9.25.5.3. Interior/Exterior Intersections.** Where an interior wall meets an exterior wall, ceiling, floor or roof required to be provided with an air barrier protection, the protection shall extend across the intersection.

**9.25.5.4. Penetrations of Air Barrier Protection.** Penetrations of the air barrier protection, such as those created by the installation of doors, windows, electrical wiring, electrical boxes, piping or ductwork, shall be sealed to maintain the integrity of the air barrier protection over the entire surface.

**9.25.5.5. Access Hatches.** Access hatches through surfaces requiring air barrier protection shall be weather-stripped around their perimeters to prevent air leakage.

**9.25.5.6. Joints in Ductwork.** Ductwork passing through unheated spaces shall have all joints taped or be otherwise sealed to ensure that the ducts are airtight throughout their length.

**9.25.5.7. Clearances around Chimneys and Vents.** Clearances between *chimneys* or *gas vents* and the surrounding construction which would permit air leakage from within the *building* into a wall or *attic* or *roof space* shall be sealed by *noncombustible* material to prevent such leakage.

**9.25.5.8. Hollow Masonry Walls**

(1) Masonry walls of hollow units which penetrate the ceiling shall be sealed at or near the ceiling adjacent to the roof space to prevent air within the voids from entering the *attic or roof space* by

- (a) capping with masonry units without voids, or
- (b) installation of flashing material extending across the full width of the masonry.

**9.25.6. Installation of Vapour Barriers**

**9.25.6.1. General.** Vapour barriers shall be installed to protect the entire surfaces of thermally insulated wall, ceiling and floor assemblies.

**9.25.6.2. Location of Vapour Barriers.** Vapour barrier protection shall be installed on the warm side of insulation.

**9.25.6.3. Low Permeance Insulation**

- (1) Additional vapour barrier protection is not required with insulation when
- (a) the insulation is of a type which, when installed, has a vapour permeance less than that required for vapour barriers in Article 9.25.3.5., or
  - (b) the insulation is foamed plastic insulation with a permeance rating of not more than 230 ng/Pa·s·m<sup>2</sup> and is installed in continuous contact with masonry or concrete walls.

**Section 9.26 Roofing****9.26.1. General**

**9.26.1.1. Purpose of Roofing.** Roofs shall be protected with roofing, including flashing, installed to shed rain effectively and prevent water due to ice damming from entering the roof.

**9.26.1.2. Alternate Installation Methods.** Methods described in CAN3-A123.51, "Asphalt Shingle Application on Roof Slopes 1:3 and steeper", or CAN3-A123.52, "Asphalt Shingle Application on Roof Slopes 1:6 to Less than 1:3" are permitted to be used for asphalt shingle applications not described in this Section.

**9.26.2. Roofing Materials****9.26.2.1. Material Standards**

- (1) Roofing materials shall conform to
- (a) CAN/CGSB 37.4-M, "Cement, Lap, Cutback Asphalt, Fibrated, for Asphalt Roofing,"
  - (b) CAN/CGSB 37.5-M, "Cement, Plastic, Cutback Asphalt,"
  - (c) CGSB 37.8M, "Asphalt, Cutback, Filled, for Roof Coating,"
  - (d) CGSB 37-GP-9Ma, "Primer, Asphalt for Asphalt Roofing, Dampproofing and Waterproofing,"
  - (e) CGSB 37-GP-21M, "Tar, Cutback, Fibrated, for Roof Coating"
  - (f) CGSB 37-GP-50M, "Asphalt, Rubberized, Hot Applied for Roofing and Waterproofing,"
  - (g) CGSB 37-GP-52M, "Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric,"
  - (h) CGSB 37-GP-54M, "Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride,"
  - (i) CGSB 37-GP-56M, "Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing,"
  - (j) CGSB 41-GP-6M, "Sheets, Thermosetting Polyester Plastics, Glass Fiber Reinforced",
  - (k) CAN2-51.32, "Sheathing, Membrane, Breather type,"
  - (l) CSA A123.1, "Asphalt Shingles Surfaced with Mineral Granules,"
  - (m) CSA A123.2, "Asphalt Coated Roofing Sheets,"
  - (n) CSA A123.3, "Asphalt or Tar Saturated Roofing Felt,"

- (o) CSA A123.4, "Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems,"
- (p) CSA A123.17, "Asphalt-Saturated Felted Glass-Fibre Mat for Use in Construction of Built-Up Roofs," or
- (q) CSA 0118.1, "Western Red Cedar Shingles, Handsplit Western Red Cedar Shakes, and Machine-Grooved Shakes."

#### 9.26.2.2. Nails

(1) Nails used for roofing shall be corrosion-resistant roofing or shingle nails conforming to CSA B111, "Wire Nails, Spikes and Staples".

(2) Nails shall have sufficient length to penetrate through or 12 mm into roof sheathing.

(3) Nails used with asphalt roofing shall have a head diameter of not less than 9.5 mm and a shank thickness of not less than 2.95 mm.

(4) Nails used with wood shingles or shakes shall have a head diameter of not less than 4.8 mm and a shank thickness of not less than 2.0 mm and shall be stainless steel, aluminum or hot-dipped galvanized.

#### 9.26.2.3. Staples

(1) Staples used to apply asphalt or wood shingles shall be corrosion-resistant and shall be driven with the crown parallel to the eaves.

(2) Staples used with asphalt shingles shall be not less than 19 mm long, 1.6 mm diam or thickness, with not less than a 24 mm crown, except that an 11 mm crown may be used if the number of staples specified in Article 9.26.7.4. is increased by one third.

(3) Staples used with wood shingles shall be not less than 29 mm long, 1.6 mm diam or thickness, with not less than a 9.5 mm crown and shall be stainless steel or aluminum.

#### 9.26.3. Roof Slope

##### 9.26.3.1. Slope

(1) Except as provided in Sentences (2) and (3), the roof slopes on which roof coverings may be applied shall conform to Table 9.26.3.A.

**Table 9.26.3.A.**  
Forming Part of Sentence 9.26.3.1.(1)

Roofing Types and Slope Limits of Roofs		
Type of Roofing	Minimum Slopes	Maximum Slope
Built-up Roofing		
Asphalt base (gravelled)	1 in 50 (1)	1 in 4
Asphalt base (without gravel)	1 in 25	1 in 2
Coal-tar base (gravelled)	1 in 50 (1)	1 in 24
Cold process	1 in 25	1 in 1.33
Asphalt Shingles		
Normal application	1 in 3	no limit
Low slope application	1 in 6	no limit
Roll Roofing		
Smooth and mineral surfaced	1 in 4	no limit
480 mm wide selvage asphalt roofing	1 in 6	no limit
Cold application felt	1 in 50	1 in 1.33
Wood Shingles	1 in 4	no limit
Handsplit Shakes	1 in 3	no limit
Asbestos-Cement Corrugated Sheets	1 in 4	no limit
Corrugated Metal Roofing	1 in 4	no limit
Sheet Metal Shingles	1 in 4	no limit
Slate Shingles	1 in 2	no limit
Column 1	2	3



**Table 9.26.3.A.—(Cont'd)**  
Forming Part of Sentence 9.26.3.1.(1)

Roofing Types and Slope Limits of Roofs		
Type of Roofing	Minimum Slopes	Maximum Slope
Clay Tile	1 in 2	no limit
Glass Fibre Reinforced Polyester Roofing Panels	1 in 4	no limit
Column 1	2	3

**Note to Table 9.26.3.A.:**

(1) Sentences 9.26.3.1.(2) and (3)

(2) Asphalt and gravel or coal tar and gravel roofs may be constructed with lower slopes than required in Sentence (1) when effective drainage is provided by roof drains located at the lowest points on the roofs.

(3) Sheet metal roof cladding systems specifically designed for low-slope applications are permitted to be installed with lower slopes than required in Sentence (1).

**9.26.4. Flashing at Intersections**

**9.26.4.1. Materials.** Sheet metal flashing shall consist of not less than 1.73 mm thick sheet lead, 0.33 mm thick galvanized steel, 0.46 mm thick copper, 0.46 mm thick zinc or 0.48 mm thick aluminum.

**9.26.4.2. Valley Flashing**

(1) Where sloping surfaces of shingled roofs intersect to form a valley, the valley shall be flashed.

(2) Closed valleys shall not be used with rigid shingles on slopes of less than 1 in 1.2.

(3) Closed valley flashing shall consist of sheet metal, self sealing composite membranes consisting of polyethylene and bituminous material or one layer of either Type S smooth surface roll roofing or Type M mineral surface roll roofing (mineral surface down) not less than 600 mm wide, and nails shall not penetrate the flashing within 75 mm of its edge or 124 mm of the bottom of the valley centreline.

(4) Open valleys shall be flashed with not less than one layer of sheet metal not less than 600 mm wide, or 2 layers of roll roofing.

(5) The bottom layer of roofing required in Sentence (4) shall consist of not less than Type S smooth roll roofing or Type M mineral surface roll roofing (mineral surface down) not less than 457 mm wide, centred in the valley and fastened with nails spaced not more than 450 mm o.c. located 24 mm away from the edges.

(6) The top layer of roofing required in Sentence (4) shall consist of not less than Type M mineral surface roll roofing (mineral surface up), 914 mm wide, centred in the valley, applied over a 100 mm wide strip of cement along each edge of the bottom layer, and fastened with a sufficient number of nails to hold it in place until the shingles are applied.

**9.26.4.3. Intersection of Shingle Roofs and Masonry**

(1) The intersection of shingle roofs and masonry walls or *chimneys* shall be protected with flashing.

(2) Counter flashing required in Sentence (1) shall be embedded not less than 24 mm in the masonry and shall extend not less than 150 mm down the masonry and lap the lower flashing not less than 100 mm.

(3) Flashing along the slopes of a roof in Sentence (1) shall be stepped so that there is not less than a 75 mm head lap in both the lower flashing and counter flashing.

(4) Where the roof described in Sentence (1) slopes upwards from the masonry, the flashing shall extend up the roof slope to a point equal in height to the flashing on the masonry, but not less than 1.5 times the shingle exposure.

**9.26.4.4. Intersection of Shingle Roofs and Walls Other Than Masonry**

(1) The intersection of shingle roofs and walls clad with other than masonry shall be protected with flashing.

(2) Flashing required in Sentence (1) shall be installed so that it extends up the wall not less than 75 mm behind the sheathing paper, and extends not less than 75 mm horizontally.

(3) Along the slope of the roof, the flashing required in Sentence (1) shall be stepped with not less than a 75 mm head lap.

**9.26.4.5. Intersection of Built-Up Roofs and Masonry**

(1) The intersection of built-up roofs with masonry walls or *chimneys* shall have a cant strip at the intersection and a roofing membrane shall be mopped over the cant strip and not less than 150 mm up the wall.

(2) Counter flashing installed over the intersection referred to in Sentence (1) shall be embedded not less than 25 mm in the masonry, and shall be of sufficient length to extend down not less than 150 mm, lapping the membrane on the masonry not less than 100 mm.

**9.26.4.6. Intersection of Built-Up Roofs and Walls other than Masonry**

(1) The intersection of built-up roofs with walls clad with other than masonry shall have a cant strip.

(2) The roofing membrane shall be mopped over the cant strip referred to in Sentence (1).

(3) Flashing plies shall extend not less than 150 mm up the wall referred to in Sentence (1) behind the sheathing paper.

**9.26.4.7. Chimney Saddles**

(1) Except as otherwise permitted in Sentence (5), *chimney* saddles shall be installed where the upper side of a *chimney* on a sloping roof is more than 750 mm wide.

(2) *Chimney* saddles shall be covered with sheet metal or roofing material of equivalent weight and quality equivalent to the roofing.

(3) Saddles shall be suitably flashed where they intersect the roof.

(4) The intersection of the saddle and the *chimney* shall be flashed and counterflashed as in Article 9.26.4.3.

(5) A *chimney* saddle need not be installed if the intersection between the *chimney* and roof is protected by sheet metal flashing that extends up the *chimney* to a height equal to not less than one sixth the width of the *chimney*, but not less than 150 mm, and up the roof slope to a point equal in height to the flashing on the *chimney*, but not less than 1.5 times the shingle exposure.

(6) Flashing described in Sentence (5) at the *chimney* shall be counterflashed as required by Article 9.26.4.3.

**9.26.5. Eave Protection for Shingles and Shakes****9.26.5.1. Required Eave Protection**

(1) Except as provided in Sentence (2), eave protection shall be provided on shingle, shake or tile roofs, extending from the edge of the roof a minimum distance of 900 mm up the roof slope to a line not less than 300 mm inside the inner face of the exterior wall.

(2) Eave protection is not required

(a) over unheated garages, carports and porches,

(b) where the roof overhang exceeds 900 mm measured along the roof slope from the edge of the roof to the inner face of the exterior wall,

(c) on roofs of asphalt shingles installed in accordance with Subsection 9.26.8., or

(d) on roofs with slopes of 1 in 1.5 or greater.

**9.26.5.2. Materials**

(1) Eave protection shall be laid beneath the starter strip and shall consist of

(a) No. 15 asphalt-saturated felt laid in two plies lapped 480 mm and cemented together with lap cement,

(b) Type M or S roll roofing laid with not less than 100 mm head and end laps cemented together with lap cement,

(c) glass fibre or polyester fibre coated base sheets, or

(d) self-sealing composite membranes consisting of modified bituminous coated material.

**9.26.6. Underlay Beneath Shingles**

**9.26.6.1. Materials.** When underlay is used beneath shingles, it shall be asphalt-saturated sheathing paper

weighing not less than 0.195 kg/m<sup>2</sup> or No. 15 plain or perforated asphalt-saturated felt or 0.05 mm polyethylene, except that underlayment used beneath wood shingles shall be breather type.

#### **9.26.6.2. Installation**

(1) When used with shingles, underlay shall be installed parallel to the eaves with head and end lap of not less than 50 mm.

(2) The top edge of each strip referred to in Sentence (1) shall be fastened with sufficient roofing nails to hold it in place until the shingles are applied.

(3) The underlay referred to in Sentence (1) shall overlap the eave protection by not less than 100 mm.

#### **9.26.7. Asphalt Shingles on Slopes of 1 in 3 or Greater**

**9.26.7.1. Coverage.** Coverage shall be not less than 2 thicknesses of shingle over the entire roof, disregarding cutouts.

#### **9.26.7.2. Starter Strip**

(1) A starter strip shall be installed along the lower edge of the roof so that it extends approximately 12 mm beyond the eaves and rake of the roof and fastened along the bottom edge with nails spaced not more than 300 mm o.c.

(2) Starter strips shall be not less than Type M mineral-surfaced roll roofing not less than 304 mm wide, or shingles of the same weight and quality as those used as a roof covering with tabs facing up the roof slope.

(3) Starter strips may be omitted where eave protection of not less than Type M mineral-surfaced roll roofing or self-sealing composite membranes consisting of polyethylene and bituminous material is provided.

**9.26.7.3. Head Lap.** Shingles shall have a head lap of not less than 50 mm.

#### **9.26.7.4. Fasteners**

(1) Shingles shall be fastened with no fewer than 4 nails or staples for 1 m wide shingles so that no nails or staples are exposed.

(2) Fasteners may be reduced for narrower shingles in proportion to the width of the shingle or when shingles incorporating interlocking devices are used.

(3) Fasteners referred to in Sentence (1) shall be located 25 mm to 40 mm from each end of each strip shingle with the other fasteners equally spaced between them.

(4) Fasteners referred to in Sentence (1) shall be located not less than 12 mm above the tops of the cutouts.

**9.26.7.5. Securing of Tabs.** Shingle tabs shall be secured by a spot of plastic cement not exceeding 25 mm diam under the centre of each tab or by interlocking devices or self-sealing strips.

#### **9.26.7.6. Hips and Ridges**

(1) Shingles on hips and ridges shall be applied so they extend not less than 100 mm on either side of the hip or ridge, and shall be lapped not less than 150 mm.

(2) Shingles referred to in Sentence (1) shall be fastened with nails or staples on each side located not more than 25 mm from the edge and 25 mm above the butt of the overlying shingle.

**9.26.7.7. Eave Protection.** Eave protection shall conform to Subsection 9.26.5.

**9.26.7.8. Flashing.** Flashing shall conform to Subsection 9.26.4.

#### **9.26.8. Asphalt Shingles on Slopes of Less Than 1 in 3**

**9.26.8.1. Coverage.** Except for the first 2 courses, coverage shall be not less than 3 thicknesses of shingle over the entire roof, disregarding cutouts.

#### **9.26.8.2. Starter Strip**

(1) A starter strip shall be installed as in Article 9.26.7.2.

(2) Starter strips required in Sentence (1) shall be laid in a continuous band of cement not less than 200 mm wide.

**9.26.8.3. Securing of Tabs.** Shingle tabs shall be secured with cold application cement applied at the rate of

not less than 0.5 L/m<sup>2</sup> of cemented area, or hot application asphalt applied at the rate of 1 kg/m<sup>2</sup> of cemented area.

#### 9.26.8.4. Securing of Shingle Courses

(1) The first course of shingles shall be secured by a continuous band of cement along the eaves applied so that the width of the band equals the shingle exposure plus 100 mm and the band is located not less than 50 mm above the lower edge of the starter strip.

(2) The succeeding courses of shingles shall be secured by a continuous band of cement applied so that the width of the band equals the shingle exposure plus 50 mm.

(3) The band required in Sentence (2) shall be located not less than 25 mm nor more than 50 mm above the butt of the overlying course of shingles.

#### 9.26.8.5. Hips and Ridges

(1) Shingles on hips and ridges shall be not less than 300 mm wide applied to provide triple coverage.

(2) Shingles referred to in Sentence (1) shall be cemented to the roof shingles and to each other with a coat of cement 25 mm from the edges of the shingles and fastened with nails or staples located 40 mm above the butt of the overlying shingle and 50 mm from each edge.

**9.26.8.6. Flashing.** Flashing shall conform to Subsection 9.26.4.

**9.26.8.7. Fastening.** Shingles shall be fastened in accordance with Articles 9.26.7.4.

#### 9.26.9. Wood Roof Shingles

**9.26.9.1. Decking.** Decking for wood shingled roofs may be continuous or spaced.

**9.26.9.2. Grade.** Shingles shall be not less than No. 2 grade.

**9.26.9.3. Size.** Wood shingles shall be not less than 400 mm long and not less than 75 mm nor more than 350 mm wide.

**9.26.9.4. Spacing and Joints.** Shingles shall be spaced approximately 6 mm apart and offset at the joints in adjacent courses not less than 40 mm so that joints in alternate courses are staggered.

**9.26.9.5. Fastening.** Shingles shall be fastened with 2 nails or staples located approximately 20 mm from the sides of the shingle and 40 mm above the exposure line.

**9.26.9.6. Exposure.** The exposure of wood roof shingles shall conform to Table 9.26.9.A.

**Table 9.26.9.A.**  
Forming Part of Article 9.26.9.6.

Maximum Exposure of Wood Shingles, mm						
Roof Slope	No. 1 Grade Length of Shingle			No 2 Grade Length of Shingle		
	400 mm	450 mm	600 mm	400 mm	450 mm	600 mm
Less than 1 in 3	100	115	165	90	100	140
1 in 3	125	140	190	90	100	140
Over 1 in 3	125	140	190	100	115	165
Column 1	2	3	4	5	6	7

**9.26.9.7. Flashing.** Flashing shall conform to Subsection 9.26.4.

**9.26.9.8. Eave Protection.** Eave protection shall conform to Subsection 9.26.5.

#### 9.26.10. Handsplit Roof Shakes

**9.26.10.1. Size and Thickness.** Shakes shall be not less than 450 mm long and not less than 100 mm nor more than 350 mm wide with a butt thickness of not more than 32 mm and not less than 9 mm.



**9.26.10.2. Underlay**

(1) Where eave protection is not provided, an underlay conforming to the requirements in Article 9.26.6.1. for wood shingles shall be laid as a strip not less than 900 mm wide along the eaves.

(2) A strip of material similar to that described in Sentence (1) not less than 450 mm wide shall be interlayed between each course of shakes with the bottom edge of the strip positioned above the butt line at a distance equal to double the exposure of the shakes.

(3) Interlayed strips in Sentence (2) shall be lapped at least 150 mm at hips and ridges in a manner that will prevent water from reaching the roof sheathing.

**9.26.10.3. Spacing and Joints.** Shakes shall be spaced approximately 6 mm to 9 mm apart and offset at the joints in adjacent courses not less than 40 mm so that joints in alternate courses are staggered.

**9.26.10.4. Fastening.** Shakes shall be fastened with nails located approximately 20 mm from the sides of the shakes and 40 mm above the exposure line.

**9.26.10.5. Exposure.** The exposure of wood shakes shall not exceed 190 mm for shakes at least 450 mm long and 240 mm for shakes at least 600 mm long.

**9.26.10.6. Flashing.** Flashing shall conform to Subsection 9.26.4.

**9.26.10.7. Eave Protection.** Eave protection shall conform to Subsection 9.26.5.

**9.26.11. Built-Up Roofs**

**9.26.11.1. Quantity of Materials.** The quantities of bituminous materials used on built-up roofs shall conform to Table 9.26.11.A.

**Table 9.26.11.A.**  
Forming Part of Article 9.26.11.1.

<b>Quantities of Bitumen for Built-Up Roofs</b>		
Type of Roof	Amount of Bitumen per Square Metre of Roof Surface	
	Mopping Coats Between Layers	Flood Coat
Asphalt and aggregate	1 kg	3 kg
Coal-tar and aggregate	1.2 kg	3.6 kg
Cold process roofing	0.75 L cold process cement	2 L cold process top coating
Column 1	2	3

**9.26.11.2. Coal-Tar and Asphalt Products.** Coal-tar products and asphalt products shall not be used together in built-up roof construction.

**9.26.11.3. Roof Felts.** Bitumen roofing felts shall be not less than No. 15 felt.

**9.26.11.4. Aggregate Surfacing**

(1) Aggregate used for surfacing built-up roofs shall be clean, dry and durable and shall consist of particles of gravel, crushed stone or air-cooled blast furnace slag having a size of from 6 mm to 15 mm.

(2) The minimum amount of aggregate surfacing per square metre of roof surface shall be 15 kg gravel or crushed stone or 10 kg crushed slag.

**9.26.11.5. Flashing.** Flashing shall conform to Subsection 9.26.4.

**9.26.11.6. Number of Layers.** Built-up roofing shall consist of at least 3 mopped-down layers of roofing felt flood coated with bitumen.

**9.26.11.7. Installation of Layers**

(1) In hot process applications each layer of bitumen-saturated felt shall be laid while the bitumen is hot, with each layer overlapping the previous one.

(2) The full width under each lap referred to in Sentence (1) shall be coated with bitumen so that in no place does felt touch felt.

(3) Felt shall be laid free of wrinkles and shall be rolled directly into the hot bitumen and broomed forward and outward from the centre to ensure complete adhesion.

#### **9.26.11.8. Roofing over Wood-Based Sheathing**

(1) Except as permitted in Sentence (2), built-up roofing applied over wood, plywood, waferboard or strandboard roof sheathing shall be laid over an additional base layer of felt laid dry over the entire roof deck with at least a 50 mm headlap and a 50 mm sidelap between each sheet.

(2) Where plywood, waferboard or strandboard roof sheathing is used, the dry layer of felt required in Sentence (1) may be omitted when the joints are taped and the sheathing is primed with asphalt.

**9.26.11.9. Attachment to Decking.** Roofing shall be securely attached to the decking or where insulation is applied above the deck, the insulation shall be securely attached to the deck before the first layer of felt is fastened to the insulation.

#### **9.26.11.10. Cant Strips**

(1) Except as permitted in Sentence (4), a cant strip shall be provided at the edges of roofs.

(2) No fewer than 2 plies of the roofing membrane shall be carried over the top of the cant strip.

(3) Flashing shall extend over the top of the cant strip and shaped to form a drip.

(4) The cant strip required in Sentence (1) may be omitted where a gravel stop is provided at the edge of roofs.

(5) The roofing membranes shall be carried over the edge of the roof before the gravel stop is fastened and 2 plies of roofing membrane mopped to the top surface of the gravel stop referred to in Sentence (4) before the flood coat is applied.

(6) The gravel stop referred to in Sentence (4) shall extend over the edge of the roof to form a drip or shall be flashed so that the flashing extends over the edge to form a drip.

#### **9.26.12. Selvage Roofing**

**9.26.12.1. Double Coverage.** Wide selvage asphalt roofing shall provide double coverage over the entire roof surface.

**9.26.12.2. Watertight Joint of Plies.** Plies of selvage roofing shall be cemented together to ensure a water-tight joint.

#### **9.26.13. Sheet Metal Roofing**

**9.26.13.1. Minimum Thickness.** Sheet metal roofing shall be not less than 0.33 mm thick galvanized steel, 0.46 mm thick copper, 0.46 mm thick zinc or 0.48 mm thick aluminum.

#### **9.26.14. Glass Reinforced Polyester Roofing**

**9.26.14.1. Support of Design Roof Load.** Where glass reinforced polyester roofing panels are not supported by roof decking but span between spaced supports, the panels shall be designed to support the design roof load.

#### **9.26.15. Hot Applied Rubberized Asphalt Roofing**

**9.26.15.1. Installation Standard.** Hot applied rubberized asphalt roofing shall be installed in accordance with CGSB 37-GP-51M, "Application or Rubberized Asphalt, Hot Applied, for Roofing and Waterproofing".

#### **9.26.16. Polyvinyl Chloride Sheet Roofing**

**9.26.16.1. Installation Standard.** Polyvinyl chloride sheet applied roofing membrane shall be installed in accordance with CGSB 37-GP-55M, "Application of Sheet Applied Flexible Polyvinyl Chloride Roofing Membrane".

#### **9.26.17. Downspouts and Roof Drains**

**9.26.17.1. Extensions to Prevent Soil Erosion.** Where downspouts are provided and are not connected to a sewer, extensions shall be provided to carry rainwater away from the *building* in a manner which will prevent soil erosion.

**9.26.17.2.** Reserved.

**Section 9.27 Siding****9.27.1. Scope**

**9.27.1.1. Application.** This Section applies to exterior wall coverings of lumber, wood shingles, shakes, asbestos-cement shingles and sheets, plywood, waferboard, hardboard, asphalt shingles, vinyl, aluminum and steel including trim, soffits and flashing.

**9.27.1.2. Stucco and Masonry Veneer.** Requirements for stucco shall conform to Section 9.28 and requirements for masonry veneer shall conform to Section 9.20.

**9.27.1.3. Asphalt Shingles.** Where asphalt shingles are used as siding, they shall conform to the requirements in Section 9.26 for asphalt roof shingles.

**9.27.2. General**

**9.27.2.1. Required Siding.** Exterior walls shall be protected with siding, including flashing, trim and other special purpose accessory pieces required for the siding system being used, to restrict the entry of rain and snow into the wall assembly.

**9.27.2.2. Clearance from Ground.** Not less than a 200 mm clearance shall be provided between the finished ground level and siding that is adversely affected by moisture such as wood, plywood, waferboard and hardboard.

**9.27.2.3. Clearance from Roof Surface.** Not less than a 50 mm clearance shall be provided between a roof surface and siding that is adversely affected by moisture such as wood, plywood, waferboard and hardboard.

**9.27.2.4. Insulating Asphalt Siding.** Insulating asphalt siding shall be ventilated by not less than a 10 mm air space behind the siding.

**9.27.3. Flashing**

**9.27.3.1. Materials.** Flashing shall consist of not less than 1.73 mm thick sheet lead, 0.33 mm thick galvanized steel, 0.46 mm thick copper, 0.46 mm thick zinc, 0.48 mm thick aluminum or 1.02 mm thick vinyl.

**9.27.3.2. Installation**

(1) Flashing shall be installed at every horizontal junction between 2 different exterior finishes, except where the upper finish overlaps the lower finish.

(2) Except as provided in Sentence (4), flashing shall be applied over exterior wall openings where the vertical distance from the bottom of the eave to the top of the trim is more than one-quarter of the horizontal overhang of the eave.

(3) Flashing shall be installed so that it extends upwards not less than 50 mm behind the sheathing paper and forms a drip on the outside edge.

(4) Where a window or exterior door is designed to be installed without head flashing, the exterior flange of the window or door frame shall be bedded into a non-hardening type caulking material and the exterior flange screwed down over the caulking material to the wall framing to form a waterproof joint.

**9.27.4. Caulking****9.27.4.1. Required Caulking**

(1) Caulking shall be provided where required to prevent the entry of water into the structure.

(2) Caulking shall be provided between masonry, siding or stucco and the adjacent door and window frames or trim, including sills unless such locations are completely protected from the entry of rain.

(3) Caulking shall be provided at vertical joints between different cladding materials unless the joint is suitably lapped or flashed to prevent the entry of rain.

**9.27.4.2. Materials**

(1) Caulking shall be of a non-hardening type suitable for exterior use, selected for its ability to resist the effects of weathering and shall be compatible with and adhere to the substrate to which it is applied.

(2) Caulking shall conform to

- (a) CGSB 19-GP-5M, "Sealing Compound, One Component, Acrylic Base, Solvent Curing,"
- (b) CAN/CGSB-19.13, "Sealing Compound, One Component, Elastomeric, Chemical Curing,"



(c) CGSB 19-GP-14M, "Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing," or

(d) CAN2-19.24, "Sealing Compound, Multi-Component, Chemical Curing."

### 9.27.5. Attachment of Siding

#### 9.27.5.1. Attachment

(1) Except as permitted in Sentences (2) to (7), siding shall be nailed to the framing members, furring members or to blocking between the framing members.

(2) Vertical lumber and stucco lath or reinforcing may be attached to sheathing only where the sheathing consists of not less than 14.3 mm lumber, 12.5 mm wood, waferboard or strandboard.

(3) Vertically applied metal siding and wood shingles and shakes may be attached to the sheathing only where the sheathing consists of not less than 14.3 mm lumber, 7.5 mm plywood, waferboard or strandboard.

(4) Asbestos-cement shingles may be attached to the sheathing only when the sheathing consists of not less than 14.3 mm lumber, 9.5 mm plywood, waferboard or strandboard.

(5) Where wood shingles or shakes are applied to sheathing which is not suitable for attaching the shingles or shakes, the shingles or shakes may be attached to a wood lath not less than 38 mm by 9.5 mm thick securely nailed to the framing and applied as described in Article 9.27.7.5.

(6) Where asbestos-cement shingles are applied to sheathing that is not suitable for attaching the shingles, the shingles may be fastened to a wood lath not less than 89 mm by 9.5 mm thick securely nailed to the framing.

(7) Lath referred to in Sentence (6) shall be applied so that it overlaps the preceding shingle course by not less than 20 mm.

**9.27.5.2. Blocking.** Blocking for the attachment of siding shall be not less than 38 mm by 38 mm lumber securely nailed to the framing and spaced not more than 600 mm o.c.

#### 9.27.5.3. Furring

(1) Except as permitted in Sentences 9.27.5.1.(5) and (6), furring for the attachment of siding shall be not less than 19 mm by 38 mm lumber when applied over sheathing.

(2) When applied without sheathing, furring referred to in Sentence (1) shall be not less than 19 mm by 64 mm lumber on supports spaced not more than 400 mm o.c., and 19 mm by 89 mm on supports spaced not more than 600 mm o.c.

(3) Furring referred to in Sentence (1) shall be securely fastened to the framing and shall be spaced not more than 600 mm o.c.

**9.27.5.4. Size and Spacing of Fasteners.** Nail or staple size and spacing for the attachment of siding and trim shall conform to Table 9.27.5.A.

**Table 9.27.5.A.**  
Forming Part of Article 9.27.5.4.

Attachment of Siding			
Type of Siding	Min. Nail or Staple Length, mm	Min. No. of Nails or Staples	Minimum Nail or Staple Spacing
Wood trim	51	—	600 mm (o.c.)
Lumber siding or horizontal siding made from sheet material	51	—	600 mm (o.c.)
Metal siding			600 mm (o.c.) (nailed to framing) 400 mm (o.c.) (nailed to sheathing only)
Column 1	2	3	4



**Table 9.27.5.A.—(Cont'd)**  
Forming Part of Article 9.27.5.4.

Attachment of Siding			
Type of Siding	Min. Nail or Staple Length, mm	Min. No. of Nails or Staples	Minimum Nail or Staple Spacing
Handsplit wood shakes up to 200 mm in width	51	2	—
Handsplit wood shakes over 200 mm in width	51	3	—
Wood shingles and machine grooved shakes up to 200 mm in width	32	2	—
Wood shingles and machine grooved shakes over 200 mm in width	32	3	—
Asbestos-cement shingles	32	2	—
Panel or sheet type siding up to 7 mm thick	38	—	150 mm (o.c.) along edges
Panel or sheet type siding greater than 7 mm thickness	51	—	300 mm (o.c.) along intermediate supports
Column 1	2	3	4

**9.27.5.5. Fastener Materials.** Nails or staples for the attachment of sidings and wood trim shall be corrosion-resistant and shall be compatible with the siding material.

**9.27.5.6. Expansion and Contraction.** Fasteners for metal or vinyl siding shall be positioned to permit expansion and contraction of the siding.

#### **9.27.5.7. Penetration of Fasteners**

(1) Fasteners for shakes and shingles shall penetrate through the nail-holding base or not less than 19 mm into the framing.

(2) Fasteners for other types of siding shall penetrate through the nail-holding base or not less than 24 mm into the framing.

#### **9.27.6. Lumber Siding**

**9.27.6.1. Materials.** Lumber siding shall be sound, free of knot holes, loose knots, through checks or splits.

#### **9.27.6.2. Thickness and Width**

(1) Drop, rustic, novelty, lapped board and vertical wood siding shall be not less than 14.3 mm thick and not more than 286 mm wide.

(2) Bevel siding shall be not less than 5 mm thick at the top and 12 mm thick at the butt for sidings 184 mm or less in width, and 14.3 mm thick at the butt for sidings wider than 184 mm.

(3) Bevel siding shall be not more than 286 mm wide.

#### **9.27.6.3. Joints**

(1) Lumber siding shall prevent water from entering at the joints by the use of lapped or matched joints or by vertical wood battens.

(2) Siding shall overlap not less than 1 mm per 16 mm width of lumber, but not less than 9.5 mm for matched siding, 24 mm for lapped bevel siding or 12 mm for vertical battens.

**9.27.7. Wood Shingles and Machine Grooved Shakes****9.27.7.1. Materials**

(1) Shingles and shakes shall conform to CSA 0118.1, "Western Red Cedar Shingles, Handsplit Western Red Cedar Shakes and Machine-Grooved Shakes."

(2) Shakes shall be not less than No. 1 grade and shingles not less than No. 2 grade, except that No. 3 grade may be used for undercoursing.

**9.27.7.2. Width.** Shingles and shakes shall be not less than 65 mm nor more than 350 mm wide.

**9.27.7.3. Fasteners.** Shingles or shakes shall be fastened with nails located approximately 20 mm from each edge and not less than 24 mm above the exposure line for single-course applications, or approximately 50 mm above the butt for double-course applications.

**9.27.7.4. Offsetting of Joints**

(1) In single-course application, joints in succeeding courses shall be offset at least 40 mm so that joints in any 2 of 3 consecutive courses are staggered.

(2) In double-course application, joints in the outer course shall be offset from joints in the under-course by not less than 40 mm, and joints in succeeding courses shall be offset not less than 40 mm.

**9.27.7.5. Fastening to Lath**

(1) When lath is used with double-course application, it shall be spaced according to the exposure and securely fastened to the framing.

(2) The butts of the under-course shall rest on the top edge of the lath.

(3) The outer course shall be fastened to the lath with nails of sufficient length to penetrate through the lath.

(4) The butts of the shingles or shakes shall be so located that they project not less than 12 mm below the bottom edge of the lath referred to in Sentence (1).

(5) If wood lath is not used, the butts of the under-course shingles or shakes of the application referred to in Sentence (1) shall be located 12 mm above the butts of the outer course.

**9.27.7.6. Exposure and Thickness.** The exposure and butt thickness of shingles shall conform to Table 9.27.7.A.

**Table 9.27.7.A.**  
Forming Part of Article 9.27.7.6.

<b>Exposure and Thickness of Wood Shingles and Machine Grooved Shakes</b>			
Shake or Shingle Length, mm	Maximum Exposure		Minimum Butt Thickness, mm
	Single Coursing, mm	Double Coursing, mm	
400	190	305	10
450	216	356	11
600	292	406	13
Column 1	2	3	4

**9.27.8. Asbestos-Cement Shingles and Sheets****9.27.8.1. Material Standards**

(1) Asbestos-cement shingles and sheets shall conform to

- (a) CAN/CGSB 34.4-M, "Siding, Asbestos Cement, Shingles and Clapboards,"
- (b) CAN/CGSB 34.5-M, "Sheets, Asbestos Cement, Corrugated,"
- (c) CAN/CGSB 34.14-M, "Sheets, Asbestos Cement, Decorative,"
- (d) CAN/CGSB 34.16, "Sheets, Asbestos Cement, Flat, Fully Compressed,"

- (e) CAN/CGSB 34.17-M, "Sheets, Asbestos Cement, Flat, Semi-compressed," or
- (f) CAN/CGSB 34.21-M, "Panels, Sandwich Asbestos, Cement and Insulating Cores."

9.27.8.2. Weight and Thickness

- (1) Asbestos-cement shingles shall weigh not less than 8.06 kg/m<sup>2</sup>.
- (2) Asbestos-cement sheet shall be not less than 4.75 mm thick where applied to studs spaced not more than 400 mm o.c., nor less than 6 mm thick where applied to studs spaced not more than 600 mm o.c.
- (3) Where applied over sheathing, the thickness of asbestos-cement sheet shall be not less than 3.15 mm.

9.27.8.3. Fastening of Shingles. Asbestos-cement shingles shall be fastened with nails located not less than 25 mm above the exposure line.

9.27.8.4. Joints of Shingles

- (1) Asbestos-cement shingles shall be installed so that vertical joints in succeeding courses are staggered.
- (2) Asphalt-coated backer strips shall be installed behind each vertical joint.
- (3) Shingles shall have not less than a 25 mm head lap.

9.27.8.5. Joints in Panels

- (1) Vertical joints of asbestos-cement panels shall be protected with batten strips, caulking or other suitable method.
- (2) Horizontal joints shall be lapped, flashed, caulked or otherwise suitably protected.

9.27.9. Plywood

9.27.9.1. Material Standards. Plywood siding shall be exterior type conforming to

- (a) CSA 0115, "Hardwood and Decorative Plywood,"
- (b) CSA 0121, "Douglas Fir Plywood,"
- (c) CSA 0151, "Canadian Softwood Plywood," or
- (d) CSA 0153, "Poplar Plywood."

9.27.9.2. Thickness

- (1) Plywood siding shall be not less than 6 mm thick when applied directly to sheathing.
- (2) When applied directly to framing or over furring strips, plywood thickness shall conform to Table 9.27.9.A.

Table 9.27.9.A.  
Forming Part of Sentence 9.27.9.2.(2)

Minimum Plywood Thickness, Exterior Wall Finish		
Spacing of Supports, mm	Face Grain Parallel to Supports, mm	Face Grain Right Angles to Supports, mm
400	8	6
600	11	8
Column 1	2	3

- (3) The thickness of grooved or textured plywood shall be measured at the point of least thickness.

9.27.9.3. Edge Treatment. The edges of plywood siding shall be treated with a suitable paint or sealer.

9.27.9.4. Panel Siding

- (1) Plywood applied in panels shall have all edges supported.
- (2) Not less than a 2 mm gap shall be provided between panels referred to in Sentence (1).

(3) Vertical joints in siding referred to in Sentence (1) shall be protected with batten strips or caulking when the plywood joints are not matched.

(4) Horizontal joints in siding referred to in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

#### **9.27.9.5. Lapped Strip Siding**

(1) Plywood applied in horizontal lapped strips shall have not less than a 2 mm gap provided at the butted ends, which shall be caulked.

(2) The horizontal joints of siding described in Sentence (1) shall be lapped not less than 25 mm.

(3) Wedges shall be inserted under all vertical butt joints and at all corners when horizontal lapped plywood is applied without sheathing.

#### **9.27.10. Hardboard**

##### **9.27.10.1. Material Standards**

(1) Factory-finished hardboard siding shall conform to CAN/CGSB 11.5-M, "Hardboard, for Exterior Cladding."

(2) Hardboard siding which is not factory finished shall conform to Types 1, 2 or 5 in CAN/CGSB 11.3-M, "Hardboard."

##### **9.27.10.2. Thickness**

(1) Type 1 or 2 hardboard siding shall be not less than 6.0 mm thick when applied over sheathing that provides continuous support and not less than 7.5 mm thick when applied to furring or framing members not more than 400 mm o.c.

(2) Type 5 hardboard siding shall be not less than 9.0 mm thick when applied over sheathing that provides continuous support or over furring or framing members spaced not more than 400 mm o.c.

(3) Where hardboard siding is grooved, the grooves shall not extend more than 1.5 mm into the required thickness.

##### **9.27.10.3. Panel Siding**

(1) Hardboard siding applied in panels shall have all edges supported with not less than a 5 mm gap provided between sheets.

(2) Vertical joints described in Sentence (1) shall be protected with batten strips or caulking when the joints are not matched.

(3) Horizontal joints described in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

##### **9.27.10.4. Lapped Strip Siding**

(1) Hardboard applied in horizontal lapped strips shall have not less than a 5 mm gap provided at the butted ends, which shall be caulked or otherwise protected with suitable mouldings.

(2) The horizontal joints of siding described in Sentence (1) shall overlap not less than 1 mm per 16 mm width of siding board but not less than 9.5 mm for matched joint siding or 25 mm for lapped siding.

**9.27.10.5. Clearance.** Not less than 3 mm clearance shall be provided between hardboard siding and door or window frames.

#### **9.27.11. Waferboard and Strandboard**

**9.27.11.1. Material Standard.** Waferboard and strandboard siding shall conform to CAN3-0437.0, "Waferboard and Strandboard."

##### **9.27.11.2. Thickness**

(1) Waferboard and strandboard conforming to grade O-2 shall be not less than 6.0 mm thick where applied directly to sheathing.

(2) Grade O-2 waferboard and strandboard applied directly to framing or over furring strips, shall conform to the thickness shown for plywood in Table 9.27.9.A.



(3) Waferboard and strandboard conforming to grades R-1 and O-1 shall be not less than 7.9 mm thick where applied directly to sheathing.

(4) Where applied directly to framing or over furring strips, waferboard and strandboard conforming to grades R-1 and O-1 shall be not less than 9.5 mm thick on supports spaced not more than 400 mm o.c. and 12.7 mm thick on supports spaced not more than 600 mm o.c.

#### **9.27.11.3. Panel Siding**

(1) Waferboard and strandboard applied in panels shall have all edges supported and treated with a primer or sealer.

(2) Not less than a 3 mm gap shall be provided between sheets in siding described in Sentence (1).

(3) Vertical joints in siding described in Sentence (1) shall be protected with batten strips or caulking when the waferboard joints are not matched.

(4) Horizontal joints in siding described in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

**9.27.11.4. Clearance.** At least a 3 mm clearance shall be provided between waferboard and strandboard siding and door or window frames.

#### **9.27.12. Metal Siding**

##### **9.27.12.1. Material Standards**

(1) Horizontal and vertical strip steel siding, including flashing and trim accessories, shall conform to CGSB 93-GP-4M, "Siding, Soffits and Fascia, Steel, Galvanized, Prefinished, Residential."

(2) Steel sheet siding shall have a minimum thickness of 0.3 mm and conform to CGSB 93-GP-3M, "Sheet, Steel, Galvanized, Prefinished, Residential."

(3) Horizontal and vertical strip aluminum siding, including flashing and trim accessories, shall conform to CGSB 93-GP-2Ma, "Siding, Soffits and Fascia, Aluminum, Prefinished, Residential."

(4) Aluminum sheet siding shall conform to CAN/CGSB 93.1-M, "Sheet, Aluminum Alloy, Prefinished, Residential" and shall have a minimum thickness of 0.58 mm, except that siding supported by backing or sheathing shall have a minimum thickness of 0.46 mm.

#### **9.27.13. Vinyl Siding**

**9.27.13.1. Material Standard.** Vinyl siding, including flashing and trim accessories, shall conform to CGSB 41-GP-24Ma, "Siding, Soffits and Fascia, Rigid Vinyl."

**9.27.13.2. Attachment.** The attachment of vinyl siding shall conform to the requirements in Subsection 9.27.5. for metal siding.

### **Section 9.28 Stucco**

#### **9.28.1. General**

##### **9.28.1.1. Sheathing Beneath Stucco**

(1) Sheathing shall be provided beneath stucco applied over wood-frame walls except as permitted in Article 9.28.4.2.

(2) Where applied beneath stucco, sheathing shall conform to Subsection 9.23.16.

##### **9.28.1.2. Lath and Reinforcing**

(1) Stucco lath or reinforcing shall be used to attach stucco to wood-frame construction.

(2) Stucco lath or reinforcing shall also be used to attach stucco to masonry where the masonry is soft-burned tile or brick of less strength than the stucco or if the masonry surface is not sound, clean and sufficiently rough to provide a good key.

(3) Stucco applied over *masonry chimneys* shall be reinforced.

**9.28.1.3. Concrete Masonry Units.** Stucco finish shall not be applied over concrete masonry units less than one month old unless the units have been cured by the autoclave process.

**9.28.1.4. Clearance over Ground Level.** Stucco shall be not less than 200 mm above finished ground level except when it is applied over concrete or masonry.

**9.28.1.5. Flashing and Caulking.** Flashing and caulking used with stucco shall conform to Subsections 9.27.3. and 9.27.4., except that if aluminum flashing is used, it shall be separated from the stucco by an impervious membrane or coating.

## **9.28.2. Stucco Materials**

**9.28.2.1. Portland Cement.** Portland cement shall conform to CAN3-A5, "Portland Cements."

### **9.28.2.2. Aggregate**

(1) Aggregate shall be clean, well-graded natural sand or sand manufactured from crushed stone, gravel or air-cooled blast furnace slag and shall contain no significant amounts of deleterious material.

(2) Aggregate grading shall conform to Table 9.28.2.A.

**Table 9.28.2.A.**  
Forming Part of Sentence 9.28.2.2.(2)

<b>Aggregate Grading for Stucco</b>		
Sieve Sizes, mm	Per Cent Passing	
	Maximum	Minimum
4	—	100
2	—	90
1	90	60
0.5	60	45
0.25	30	10
0.125	5	—
Column 1	2	3

**9.28.2.3. Water.** Water shall be clean and free of significant amounts of deleterious material.

## **9.28.3. Fasteners**

**9.28.3.1. Materials.** Fasteners for stucco lath or reinforcing shall be corrosion-resistant and of a material other than aluminum.

### **9.28.3.2. Nails and Staples**

(1) Nails for stucco lath or reinforcing shall be not less than 3.2 mm diam with a head diameter of not less than 11.1 mm.

(2) Staples for stucco lath reinforcing shall be not less than 1.98 mm diam or thickness.

(3) Staples and nails for attaching stucco lath or reinforcing to vertical surfaces shall be of sufficient length to penetrate 24 mm into framing members or to the full depth of the sheathing where the sheathing is used for attachment.

(4) On horizontal surfaces nails for stucco lath or reinforcing shall be not less than 38 mm long.

## **9.28.4. Stucco Lath**

### **9.28.4.1. Materials**

(1) Rib lath or expanded metal stucco mesh shall be copper-alloy steel coated with rust-inhibitive paint after fabrication or shall be galvanized.

(2) Woven or welded wire mesh shall be galvanized.

**9.28.4.2. No Sheathing Required.** Sheathing need not be provided beneath stucco where not less than 1.19 mm diam galvanized wire is applied horizontally to the framing at vertical intervals not exceeding 150 mm, or where paper-backed welded wire metal lath is used.

**9.28.4.3. Stucco Lath Specifications.** Stucco lath shall conform to Table 9.28.4.A.

Table 9.28.4.A.  
Forming Part of Article 9.28.4.3.

Stucco Lath				
Location	Type of Lath	Min. Diam of Wire, mm	Max. Mesh Opening	Min. Mass, kg/m <sup>2</sup>
Vertical surfaces	Welded or woven wire	1.19 1.35 1.60	24 mm 38 mm 51 mm	— — —
	Stucco mesh reinforcing (expanded metal)	—	25.8 cm <sup>2</sup>	0.98
Horizontal surfaces (1)	9.5 mm rib lath	—	—	1.84
	cedar lath	—	—	—
Column 1	2	3	4	5

9.28.4.4. Self-Furring Devices. Stucco lath shall be held not less than 6 mm away from the backing by means of suitable self-furring devices.

9.28.4.5. Application of Stucco Lath

- (1) Stucco lath shall be applied with the long dimension horizontal. Horizontal and vertical joints shall be lapped not less than 50 mm.
- (2) End joints of stucco lath shall be staggered and shall occur over framing members.
- (3) External corners of stucco lath shall be reinforced with a vertical strip of lath or reinforcing extending not less than 150 mm on both sides of the corner, or the lath or reinforcing shall extend around corners not less than 150 mm.

9.28.4.6. Fastening

- (1) Stucco lath shall be fastened in conformance with Subsection 9.27.5.
- (2) Fasteners on vertical surfaces shall be spaced not more than 150 mm o.c. vertically and 400 mm o.c. horizontally, or 100 mm o.c. vertically and 600 mm o.c. horizontally.
- (3) Nailing patterns other than those required in Sentence (1) are permitted to be used provided there are not fewer than 20 fasteners per square metre of wall surface.
- (4) Fasteners on horizontal surfaces shall be spaced not more than 150 mm o.c. along the framing members when members are spaced not more than 400 mm o.c., and 100 mm o.c. along members when members are spaced not more than 600 mm o.c.

9.28.5. Stucco Mixes

9.28.5.1. Mixes. Stucco mixes shall conform to Table 9.28.5.A.

Table 9.28.5.A.  
Forming Part of Article 9.28.5.1.

Stucco Mixes (by volume)			
Portland Cement	Masonry Cement Type H	Lime	Aggregate
1 1	— 1	0.25 to 1 —	3.25 to 4 parts per part of cementitious material
Column 1	2	3	4

**9.28.5.2. Pigments**

- (1) Pigment if used shall consist of pure mineral oxides inert to the action of sun, lime and cement.
- (2) Pigment shall not exceed 6 per cent of the portland cement by weight.

**9.28.5.3. Mixing**

- (1) Materials shall be thoroughly mixed before and after water is added.
- (2) Stucco shall be applied not later than 3 h after the initial mixing.

**9.28.6. Stucco Application****9.28.6.1. Low Temperature Conditions**

- (1) The base for stucco shall be maintained above freezing.
- (2) Stucco shall be maintained at a temperature of not less than 10°C during application and for not less than 48 h afterwards.

**9.28.6.2. Number of Coats and Total Thickness.** Stucco shall be applied with not less than 2 base coats and 1 finish coat, providing a total thickness of not less than 15 mm, measured from the face of the lath or face of the masonry where no lath is used.

**9.28.6.3. First Coat**

- (1) The first coat shall be not less than 6 mm thick, measured from the face of the lath or masonry, fully embedding the lath.
- (2) The surface of the first coat shall be scored to provide a key with the second coat.

**9.28.6.4. Second Coat**

- (1) The second coat shall be not less than 6 mm thick.
- (2) The surface shall be lightly roughened to provide a key with the finish coat if the finish coat is other than stone dash.

**9.28.6.5. Finish Coat**

- (1) When the finish coat is other than stone dash, the base shall be dampened but not saturated before the finish coat is applied.
- (2) The thickness of the finish coat shall be not less than 3 mm.
- (3) When a stone dash finish is used, the stone shall be partially embedded in the second coat before the second coat starts to set or stiffen.

**Section 9.29 Interior Wall and Ceiling Finishes****9.29.1. General**

**9.29.1.1. Conform to Other Sections.** A wall or ceiling finish shall also conform to the appropriate requirements in Sections 9.10 and 9.11 in addition to the requirements in this Section.

**9.29.2. Waterproof Wall Finish**

**9.29.2.1. Where Required.** Waterproof finish shall be provided to a height of not less than 1.8 m above the floor in shower stalls, 1.2 m above the rims of bathtubs equipped with showers and 400 mm above the rims of bathtubs not equipped with showers.

**9.29.2.2. Materials.** Waterproof finish shall consist of ceramic, plastic or metal tile, sheet vinyl, tempered hardboard, laminated thermosetting decorative sheets or linoleum.

**9.29.3. Wood Furring**

**9.29.3.1. Size and Spacing of Furring.** Wood furring for the attachment of wall and ceiling finishes shall conform to Table 9.29.3.A.



Table 9.29.3.A.  
Forming Part of Article 9.29.3.1.

Minimum Size and Maximum Spacing of Furring, mm			
Maximum Spacing of Furring, mm	Maximum Spacing of Furring Supports		
	Continuous Support	400 mm (o.c.)	600 mm (o.c.)
300	19 × 38	19 × 38	19 × 64
400	19 × 38	19 × 38	19 × 64
600	19 × 38	19 × 64	19 × 89
Column 1	2	3	4

9.29.3.2. **Fastening.** Furring shall be fastened to the framing or to wood blocks with not less than 51 mm nails.

9.29.4 **Plastering**

9.29.4.1. **Standard for Plaster Finish.** Application of plaster wall and ceiling finishes including installation of metal or gypsum lath, shall conform to CSA A82.30, "Interior Furring, Lathing and Gypsum Plastering."

9.29.5. **Gypsum Board Finish (Taped Joints)**

9.29.5.1. **Application**

(1) The requirements for application of gypsum board in this Subsection apply to the single layer application of gypsum board to wood furring or framing using nails or screws.

(2) Gypsum board applications not described in this Subsection shall conform to CSA A82.31, "Gypsum Board Application."

9.29.5.2. **Materials.** Gypsum board shall conform to CSA A82.27, "Gypsum Board Products."

9.29.5.3. **Maximum Spacing of Supports.** Maximum spacing of supports for gypsum board applied as a single layer shall conform to Table 9.29.5.A.

Table 9.29.5.A.  
Forming Part of Article 9.25.5.3.

Maximum Spacing of Supports for Gypsum Board				
Thickness, mm	Orientation of Board to Framing	Maximum Spacing of Supports o.c., mm		
		Walls	Ceilings Painted Finish	Ceilings Water Based Texture Finish
9.5	parallel perpendicular	— 400	— 400	— —
12.7	parallel perpendicular	600 600	400 600	— 400
15.9	parallel perpendicular	600 600	400 600	— 600
Column 1	2	3	4	5

9.29.5.4. **Support of Insulation.** Gypsum board supporting insulation shall be at least 12.7 mm thick.

9.29.5.5. **Length of Fasteners.** The length of fasteners for gypsum board shall conform to Table 9.29.5.B., except that lesser depths of penetration are permitted for assemblies required to have a fire-resistance rating provided it can be shown, on the basis of fire tests, that such depths are adequate for the required rating.

**Table 9.29.5.B.**  
Forming Part of Article 9.29.5.5.

Minimum Fastener Penetration into Wood Supports, mm				
Required Fire-Resistance Rating of Assembly	Walls		Ceilings	
	Nails	Screws	Nails	Screws
Fire-resistance rating not required	20	15	20	15
45 min	20	20	30	30
1 h	20	20	45	45
1.5 h	20	20	60	60
Column 1	2	3	4	5

**9.29.5.6. Nails.** Nails for fastening gypsum board to wood supports shall conform to CSA Standard B111, "Wire Nails, Spikes and Staples."

**9.29.5.7. Screws.** Screws for fastening gypsum board to wood supports shall conform to ASTM C1002, "Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases."

**9.29.5.8. Spacing of Nails**

(1) For single-layer application nails shall be spaced not more than 180 mm o.c. on ceiling supports, and not more than 200 mm apart along vertical wall supports, except that nails may be spaced in pairs about 50 mm apart every 300 mm along such wall or ceiling supports.

(2) Where the ceiling sheets are supported by the wall sheets around the perimeter of the ceiling, this support may be considered as equivalent to nailing at this location.

(3) The uppermost wall nails shall be not more than 200 mm below the ceiling.

(4) Nails shall be located not less than 10 mm from the side or edge of the board.

(5) Nails shall be driven so that the heads are below the plane of the board surface but do not puncture the paper.

**9.29.5.9. Spacing of Screws.** Where gypsum board is applied with drywall screws, the screws shall be spaced not more than 300 mm. o.c. along supports, except that on vertical surfaces the screws may be spaced 400 mm o.c. where the supports are not more than 400 mm o.c.

**9.29.5.10. Low Temperature Conditions.** In cold weather, heat shall be provided to maintain a temperature of not less than 10°C for 48 h prior to taping and finishing and maintained for at least 48 h thereafter.

**9.29.6. Plywood Finish**

**9.29.6.1. Thickness**

(1) The minimum thickness of plywood interior finish shall conform to Table 9.29.6.A., except that no minimum thickness is required when the plywood is applied over solid backing.

(2) Thicknesses listed in Table 9.29.6.A. shall permit a manufacturing tolerance of  $\pm 0.4$  mm.

Table 9.29.6.A.  
Forming Part of Articles 9.29.6.1. and 9.29.6.2.

Minimum Thickness of Plywood Interior Finish		
Maximum Spacing of Supports, mm (o.c.)	On Supports with no Horizontal Blocking, mm	On Supports with Blocking at Vertical Intervals not Exceeding 1.2 m, mm
400	4.7	4.0
600	8.0	4.7
Column 1	2	3

9.29.6.2. Grooved Plywood

(1) Except as permitted in Sentence (2), where plywood for interior finish is grooved, the grooves shall not extend through the face ply and into the plies below the face ply unless the groove is supported by framing or furring.

(2) If the grain of the face ply is at right angles to the supporting members, the groove is permitted to extend into the plies below the face ply provided the thickness of the plywood exceeds the value shown in Table 9.29.6.A. by an amount equal to at least the depth of penetration of the grooves into the plies below the face ply.

9.29.6.3. Nails and Staples. Nails for attaching plywood finishes shall not be less than 38 mm casing or finishing nails spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports, except that staples providing equivalent lateral resistance may also be used.

9.29.6.4. Edge Support. All plywood edges shall be supported by furring, blocking or framing.

9.29.7. Hardboard Finish

9.29.7.1. Material Standard. Hardboard shall conform to CAN/CGSB 11.3-M, "Hardboard."

9.29.7.2. Thickness. Hardboard shall be not less than 3 mm thick where applied over continuous back-up, 6 mm thick where applied to supports spaced not more than 400 mm o.c. and 9 mm thick where applied to supports spaced not more than 600 mm o.c.

9.29.7.3. Nails. Nails for fastening hardboard shall be casing or finishing nails not less than 38 mm long, spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports.

9.29.7.4. Edge Support. All hardboard edges shall be supported by furring, blocking or framing where the back-up is not continuous.

9.29.8. Insulating Fibreboard Finish

9.29.8.1. Material Standard. Insulating fibreboard shall conform to CAN3-A247-M, "Insulating Fibreboard."

9.29.8.2. Thickness

- (1) Insulating fibreboard sheets shall be not less than 11.1 mm thick on supports not more than 400 mm o.c.
- (2) Insulating fibreboard tile shall be not less than 12.7 mm thick on supports spaced not more than 400 mm o.c.

9.29.8.3. Nails

(1) Nails for fastening fibreboard sheets shall be not less than 2.6 mm shank diameter casing or finishing nails of sufficient length to penetrate at least 20 mm into the supports.

(2) Nails shall be spaced not more than 100 mm o.c. along edge supports and 200 mm o.c. along intermediate supports.

9.29.8.4. Edge Support. All fibreboard edges shall be supported by blocking, furring or framing.

9.29.9. Particleboard, Waferboard or Strandboard Finish

9.29.9.1. Material Standard

(1) Particleboard finish shall conform to CAN3-O188.1, "Interior Mat-Formed Wood Particleboard."

(2) Waferboard and strandboard finish shall conform to CAN3-O437.0, "Waferboard and Strandboard."

#### 9.29.9.2. Minimum Thickness

(1) The minimum thickness of O-2 grade waferboard and strandboard used as an interior finish shall conform to that shown for plywood in Table 9.29.6.A., except that no minimum thickness is required when applied over solid backing.

(2) Thickness listed in Table 9.29.6.A. shall permit a manufacturing tolerance of  $\pm 0.4$  mm

(3) Waferboard and strandboard conforming to grades R-1 and O-1 and particleboard shall be

(a) not less than 6.35 mm thick on supports not more than 400 mm o.c.,

(b) not less than 9.5 mm thick on supports not more than 600 mm o.c., and

(c) not less than 6.35 mm thick on supports not more than 600 mm o.c. in walls where blocking is provided at midwall height.

9.29.9.3. **Nails.** Nails for fastening particleboard, waferboard or strandboard shall be not less than 38 mm casing or finishing nails spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports.

9.29.9.4. **Edge Support.** All particleboard, waferboard or strandboard edges shall be supported by furring, blocking or framing.

#### 9.29.10. Wall Tile Finish

##### 9.29.10.1. Tile Application

(1) Ceramic tile shall be set in a mortar base or applied with an adhesive.

(2) Plastic tile shall be applied with an adhesive.

##### 9.29.10.2. Mortar Base

(1) When ceramic tile is applied to a mortar base the cementitious material shall consist of 1 part portland cement to not more than one-quarter part lime by volume.

(2) The cementitious material described in Sentence (1) shall be mixed with not less than 3 nor more than 5 parts of aggregate per part of cementitious material by volume.

(3) Mortar shall be applied over metal lath or masonry.

(4) Ceramic tile applied to a mortar base shall be thoroughly soaked and pressed into place forcing the mortar into the joints while the tile is wet.

9.29.10.3. **Adhesives.** Adhesives to attach ceramic and plastic tile shall be applied to the finish coat or brown coat of plaster that has been steel-trowelled to an even surface or to gypsum board or to masonry provided the masonry has an even surface.

9.29.10.4. **Moisture Resistant Backing.** Ceramic and plastic tile installed on walls around bathtubs or showers shall be applied over moisture resistant backing.

9.29.10.5. **Joints between Tiles and Bathtub.** The joints between wall tiles and a bathtub shall be suitably caulked with material conforming to CGSB 19-GP-22M, "Sealing Compound, Mildew Resistant, for Tubs and Tile."

#### Section 9.30 Flooring

##### 9.30.1. General

9.30.1.1. **Required Finish Flooring.** Finished flooring shall be provided in all *residential occupancies*.

9.30.1.2. **Water Resistance.** Finished flooring in bathrooms, kitchens, public entrance halls, laundry and general storage areas shall consist of resilient flooring, felted-synthetic-fibre floor coverings, concrete, terrazzo, ceramic tile, mastic or other types of flooring providing similar degrees of water resistance.

9.30.1.3. **Sleepers.** Wood sleepers supporting finished flooring over a concrete base supported on the ground shall be not less than 19 mm by 38 mm and shall be treated with a wood preservative.

9.30.1.4. **Finish Quality.** Finished flooring shall have a surface that is smooth, even and free from roughness or open defects.



**9.30.2. Panel-Type Underlay****9.30.2.1. Required Underlay**

(1) A panel-type underlay shall be provided under resilient flooring, parquet flooring, ceramic tile, felted-synthetic-fibre floor coverings or carpeting laid over lumber subflooring.

(2) A panel-type underlay shall be provided under resilient flooring, parquet flooring, felted-synthetic-fibre floor coverings, carpeting or ceramic tile on panel-type subflooring whose edges are unsupported.

(3) Panel-type underlay shall be provided under resilient flooring on waferboard or strandboard subflooring.

(4) Panel-type underlay shall be provided under ceramic tile applied with adhesive.

**9.30.2.2. Materials and Thickness**

(1) Panel-type underlay shall be not less than 6 mm thick and shall conform to

(a) CSA O115, "Hardwood and Decorative Plywood",

(b) CSA O121, "Douglas Fir Plywood",

(c) CSA O151, "Canadian Softwood Plywood",

(d) CSA O153, "Poplar Plywood",

(e) CAN3-O188.1, "Interior Mat-Formed Wood Particleboard",

(f) CAN3-O437.0, "Waferboard and Strandboard", or

(g) CAN/CGSB 11.3-M87, "Hardboard".

(2) Reserved.

**9.30.2.3. Fastening**

(1) Panel-type underlay shall be fastened to the subfloor with staples, annular grooved flooring nails or spiral nails, spaced not more than 150 mm o.c. along the edges and 200 mm o.c. both ways at other locations.

(2) Nails for panel-type underlay shall be not less than 19 mm long for 6 mm thick underlay and 22 mm long for 7.9 mm thick underlay.

(3) Staples for panel-type underlay shall have not less than a 1.2 mm shank diameter or thickness with a 4.7 mm crown and shall be not less than 22 mm long for 6 mm underlay and 28 mm long for 7.9 mm and 9.5 mm underlay.

**9.30.2.4. Joints Offset.** Where panel-type underlay is required to be installed over plywood, waferboard or strandboard, the joints in the underlay shall be offset at least 200 mm from the joints in the underlying subfloor.

**9.30.2.5. Surface Defects.** Underlay beneath resilient or ceramic floors applied with an adhesive shall have all holes or open defects on the surface patched so that the defects will not be transmitted to the finished surface.

**9.30.3. Wood Strip Flooring**

**9.30.3.1. Thickness.** The thickness of wood strip flooring shall conform to Table 9.30.3.A.

**Table 9.30.3.A.**  
Forming Part of Article 9.30.3.1.

<b>Wood Strip Flooring</b>			
Type of Flooring	Maximum Joist Spacing, mm	Minimum Thickness of Flooring, mm	
		With Subfloor	No Subfloor
Matched hardwood (interior use only)	400	7.9	19.0
	600	7.9	33.3
Matched softwood (interior or exterior use)	400	19.0	19.0
	600	19.0	31.7
Square edge softwood (exterior use only)	400	—	25.4
	600	—	38.1
Column 1	2	3	4

### 9.30.3.2. Strip Direction and End Joints

(1) Wood strip flooring shall not be laid parallel to lumber subflooring unless a separate underlay is provided.

(2) If wood strip flooring is applied without a subfloor, it shall be laid at right angles to the joists so that the end joints are staggered and occur over supports or are end matched.

(3) If the flooring is end matched, it shall be laid so that no two adjoining strips break joints in the same space between supports and each strip bears on no fewer than two supports.

### 9.30.3.3. Nailing

(1) When nails are used, wood strip flooring shall be toe nailed or face nailed with not less than one nail per strip at the spacings shown in Table 9.30.3.B., except that face nailed strips of more than 25 mm in width shall have no fewer than two nails per strip.

(2) Face nails shall be countersunk and the holes filled with suitable filler.

**Table 9.30.3.B.**  
Forming Part of Sentence 9.30.3.3.(1)

<b>Nailing of Wood Strip Flooring</b>		
Finish Floor Thickness mm	Minimum length of Flooring Nails, mm	Maximum Spacing of Flooring Nails, mm
7.9	38 (1)	200
11.1	51	300
19.0	57	400
25.4	63	400
31.7	70	600
38.1	83	600
Column 1	2	3

### Note to Table 9.30.3.B.:

(1) See Article 9.30.3.4

**9.30.3.4. Staples.** Staples may be used to fasten wood strip flooring not more than 7.9 mm in thickness provided the staples are not less than 29 mm long with a shank diameter of 1.19 mm and with 4.7 mm crowns.

### 9.30.4. Parquet Flooring

**9.30.4.1. Adhesive.** Adhesive used to attach parquet block flooring shall be suitable for bonding wood to the applicable subfloor material.

**9.30.5. Resilient Flooring****9.30.5.1. Materials**

(1) Resilient flooring used on concrete slabs supported on ground shall consist of asphalt, rubber, vinyl-asbestos, unbacked vinyl or vinyl with an inorganic type backing.

(2) Flooring described in Sentence (1) shall be attached to the base with a suitable waterproof and alkali-resistant adhesive.

**9.30.6. Ceramic Tile**

**9.30.6.1. Application.** Ceramic tile shall be set in a mortar bed or applied to a sound smooth base with a suitable adhesive.

**9.30.6.2. Mortar Bed**

(1) When ceramic tile is set in mortar bed, the bed shall be not less than 32 mm thick. A 50 mm x 50 mm galvanized wire mesh shall be placed in the mortar bed, and asphalt sheathing paper, felt or polyethylene film shall be applied under the mortar bed when the mortar is applied over wood subfloors.

(2) The mortar bed described in Sentence (1) shall consist of by volume

- (a) 1 part portland cement,
- (b) 4 parts sand, and
- (c) 1 part water.

(3) The tile joints for the ceramic tile in Sentence (1) shall be grouted with cement grout which shall be compressed into joints between the tiles and then wiped smooth.

**9.30.6.3. Reinforcement for Panel-Type Wood Sheathing**

(1) When ceramic floor tiles are set on panel-type wood sheathing, one of the following assemblies for reinforcing the floor assembly shall be used

- (a) 20 mm thick plywood or waferboard with all edges supported by at least 38 mm x 38 mm blocking with floor joists spaced not more than 400 mm o.c., with 6 mm underlay,
- (b) sheathing thickness which conforms to Table 9.23.14.A. and having an underlay consisting of 15.9 mm plywood or waferboard with offsetting joints. A 4 mm gap shall be provided between sheets, or
- (c) sub-floor sheathing reinforced with close spaced 38 mm x 38 mm blocking at spacings at least half that of the floor joist spacing.

**Section 9.31 Plumbing Facilities****9.31.1. Scope****9.31.1.1. Application**

(1) This Section applies to plumbing facilities and *plumbing systems* within *dwelling units* that are not within a *recreational camp* or a *camp for housing of workers*.

(2) Plumbing facilities other than those required in *dwelling units* shall conform to Subsection 3.6.4.

**9.31.2. General****9.31.2.1. Reserved.**

**9.31.2.2. Corrosion Protection.** Metal pipes in contact with cinders or other corrosive material shall be protected by a heavy coating of bitumen or other corrosion protection.

**9.31.2.3. Grab Bars.** When provided, grab bars shall be capable of resisting a load of not less than 1.3 kN applied vertically or horizontally.

**9.31.3. Water Supply and Distribution**

**9.31.3.1. Required Water Supply.** Every *dwelling unit* shall be supplied with potable water from an approved public or community system where these systems are available.

**9.31.3.2. Required Connections**

- (1) Where a piped water supply is available, piping for hot and cold water shall be connected to every kitchen sink, lavatory, bathtub, shower, slop sink and laundry area.
- (2) Piping for cold water shall be run to every water closet and hose bib.

**9.31.4. Required Facilities**

**9.31.4.1. Required Fixtures.** A kitchen sink, lavatory, water closet and bathtub or shower stall shall be provided for every *dwelling unit* where a piped water supply is available.

**9.31.4.2. Laundry Fixtures.** Laundry facilities or a space for laundry facilities shall be provided in every *dwelling unit* or grouped elsewhere in the *building* in a location conveniently accessible to occupants of every *dwelling unit*.

**9.31.4.3. Hot Water Supply**

- (1) Where a piped water supply is available a hot water supply shall be provided in every *dwelling unit*.
- (2) A water distribution system supplying hot water to bathtubs, showers and hand basins that are accessible to residents of a group home, a home for special care or a residence for developmentally-handicapped adults shall have one or more temperature gauges and control devices that are
  - (a) accessible only to supervisory staff, and
  - (b) capable of being adjusted to ensure that the temperature of the water supply to the fixtures does not exceed 49°C.

**9.31.4.4. Floor Drains**

- (1) Where gravity drainage to a sewer, drainage ditch or dry well is possible, a floor drain shall be installed in a *basement* forming part of a *dwelling unit*.
- (2) A floor drain shall be provided in a public laundry room, garbage room, incinerator room, *boiler* or heating room, serving more than one *dwelling unit*.

**9.31.4.5. Required Facilities at Recreational Camps and a Camp for Housing of Workers**

- (1) A minimum of one water closet or privy shall be provided
  - (a) for every ten campers of each sex in a *recreational camp*, and
  - (b) for every ten employees of each sex in a *camp for housing of workers*.
- (2) In *recreational camps* and a *camp for housing of workers*, at least two lavatories or provision for a pail or other portable container of sound construction shall be provided for each of the water closets or privies required in Sentence (1).
- (3) A *camp for housing of workers* shall
  - (a) have at least one shower or other area of bathing, and
  - (b) provide for at least one washing machine or laundry tub for every fifteen beds.

**9.31.5. Sewage Disposal**

**9.31.5.1. Building Sewer.** Wastes from every plumbing fixture shall be piped to the *building sewer*.

**9.31.5.2. Discharge of Sewage**

- (1) *Building sewers* shall discharge into a public sewage system where such system is available.
- (2) Where a public sewage system is not available, the *building sewer* shall discharge into a *private sewage disposal system*.

**9.31.6. Service Water Heating Facilities**

**9.31.6.1. Hot Water Temperature.** Where a hot water supply is required by Article 9.31.4.3., equipment shall be installed to provide to every *dwelling unit* an adequate supply of service hot water with a temperature range from 45°C to 60°C.

**9.31.6.2. Supply Source.** Service hot water may be distributed from a centrally located heater to supply the entire *building* or may be supplied by an individual *service water heater* for each *dwelling unit*.



**9.31.6.3. Equipment and Installation Requirements.** Every *service water heater* and its installation shall conform to Part 6.

**9.31.6.4. Corrosion-Resistant Coating.** Where storage tanks for *service water heaters* are steel, they shall be coated with zinc, vitreous enamel (glass lined), hydraulic cement or other corrosion-resistant material.

**9.31.6.5. Fuel-Burning Heaters.** Fuel-burning *service water heaters* shall be connected to a *chimney flue* conforming to Section 9.21.

**9.31.6.6. Heating Coils.** Heating coils of *service water heaters* shall not be installed in a *flue* or in the combustion chamber of a *boiler* or *furnace* heating a *building*.

## **Section 9.32 Ventilation**

### **9.32.1. General**

#### **9.32.1.1. Application**

(1) This Section applies to the ventilation of rooms and spaces in *residential occupancies* by natural ventilation and to self-contained mechanical ventilation systems serving only one *dwelling unit*.

(2) Mechanical ventilation systems serving more than one *dwelling unit* shall conform to Part 6.

(3) Ventilation of rooms and spaces in other than *residential occupancies* shall conform to Part 6.

(4) A *storage garage* for more than five cars shall be ventilated in accordance with Part 6.

**9.32.1.2. General.** Rooms or spaces in *dwelling units* shall be ventilated during the non-heating season by natural means in accordance with Subsection 9.32.2. or by a mechanical ventilation system conforming to Subsection 9.32.3.

### **9.32.2. Natural Ventilation**

#### **9.32.2.1. Natural Ventilation Area**

(1) The unobstructed openable ventilation area to the outdoors for rooms and spaces in *residential buildings* ventilated by natural means shall conform to Table 9.32.2.A.

**Table 9.32.2.A.**  
Forming Part of Sentence 9.32.2.1.(1)

Natural Ventilation		
	Location	Minimum Unobstructed Area
Within dwelling unit	Bathrooms or water-closet rooms	0.09 m <sup>2</sup>
	Unfinished <i>basement</i> space	0.2 per cent of the floor area
	Dining rooms, living rooms, Bedrooms, kitchens, combined rooms Dens, recreation rooms and all other finished rooms	0.28 m <sup>2</sup> per room or combination of rooms
Other than within dwelling unit	Bathrooms or water-closet rooms	0.09 m <sup>2</sup> per water-closet
	Sleeping areas	0.14 m <sup>2</sup> per occupant
	Laundry rooms, kitchens, recreation rooms	4 per cent of the floor area
	Corridors, storage rooms and other similar public rooms or spaces	2 per cent of the floor area
	Unfinished <i>basement</i> space not used on a shared basis	0.2 per cent of the floor area
Column 1	2	3

(2) Where a vestibule opens directly off a living or dining room within a *dwelling unit*, ventilation to the outdoors for such rooms may be through the vestibule.

#### 9.32.2.2. Protection from Weather and Insects

(1) Openings for natural ventilation other than windows shall be constructed to provide protection from the weather and insects.

(2) Screening shall be of rust-proof material.

#### 9.32.3. Mechanical Ventilation

##### 9.32.3.1. Required Mechanical Ventilation for Dwelling Units

(1) Every *dwelling unit* shall be provided with a mechanical ventilation system having a capacity to exhaust inside air or to introduce outside air at the rate of not less than 0.3 air change per hour, averaged over any 24-hour period.

(2) The rate of air change in Sentence (1) shall be based on the total interior volume of all storeys including the basement, but excluding any attached or built-in garage or unheated crawl space.

**9.32.3.2. Mechanical Ventilation of Rooms and Spaces.** Where a habitable room or space in a *dwelling unit* is not provided with natural ventilation described in Article 9.32.1.2., mechanical ventilation shall be provided to exhaust inside air or to introduce outside air to that room or space at the rate of one-half air change per hour if the room or space is mechanically cooled in summer, and one air change per hour if it is not.

##### 9.32.3.3. Design and Installation Requirements

(1) Except as provided in Sentence (2), mechanical ventilation shall conform to the requirements in Part 6.

(2) Mechanical ventilation required in Articles 9.32.3.1. and 9.32.3.2., and consisting of one or more exhaust fans without an air circulating ductwork system, need not conform with Part 6, provided

(a) each exhaust fan conforms to CSA C22.2 No. 113, "Fans and Ventilators",

(b) except as permitted in Sentences (3) and (4), air intake openings for make-up air are installed and are

of a size to prevent excessive depressurization in the *dwelling unit* when all exhaust fans of the system are operating, and

- (c) the exhaust fans are controlled either manually by a switch or automatically by a humidistat.

(3) The mechanical ventilation capacity of the system described in Sentence (1) shall be assumed to be the sum of the capacities of the individual fans, as rated at a differential static pressure of at least 25 Pa.

(4) The air intake openings described in Clause (2) (b) are not required if spillage susceptible fuel-fired heating appliances which are required to be vented are not installed in the *dwelling unit*.

(5) The air intake openings described in Clause (2) (b) are not required if it can be shown by test that air leakage is sufficient to prevent excessive depressurization in the *dwelling unit* when all exhaust fans of the system are operating.

(6) Special purpose air exhausting equipment such as central vacuum cleaning systems, downdraft cook tops and clothes dryers shall not be included in the calculation of the capacity of the system described in Sentence (2).

**9.32.3.4. Combustion and Dilution Air.** Systems designed to provide combustion and/or dilution air for fuel-burning appliances shall not be used to supply make-up air for ventilation systems unless their capacity is sufficient to serve both functions simultaneously without creating excessive depressurization in the *dwelling unit*.

#### **9.32.3.5. Exhaust Ducts**

- (1) *Exhaust ducts* shall discharge directly to the outdoors.

(2) Where the *exhaust duct* passes through or is adjacent to unheated space, the duct shall be insulated to prevent moisture condensation in the duct.

#### **9.32.3.6. Accessibility**

- (1) Ventilation equipment shall be accessible for inspection, maintenance repair and cleaning.

(2) Kitchen *exhaust ducts* shall be designed and installed so that the entire duct can be cleaned where the duct is not equipped with a filter at the intake end.

#### **9.32.3.7. Protection from Weather and Insects**

- (1) Outdoor air intake and exhaust outlets shall be shielded from weather and insects.

- (2) Screening shall be of rust-proof material.

**9.32.3.8. Requirements for Ducts.** Ventilating ducts shall conform to the requirements of Part 6 for *supply ducts*, except *exhaust ducts* that serve only a bathroom or water-closet room may be of *combustible* material provided the duct is reasonably air-tight and constructed of a material impervious to water.

### **Section 9.33 Heating and Air-Conditioning**

#### **9.33.1. General**

##### **9.33.1.1. Design and Installation Requirements**

(1) The design and installation of central heating systems including requirements for combustion air, shall conform to the requirements in Part 6 and to this Section.

- (2) The design and installation of *air-conditioning* systems shall conform to the requirements in Part 6.

(3) Repairs, adjustments or component replacements that change the capacity or extent of safety of an existing heating, ventilating or *air-conditioning* system and that alter the method of operation shall conform to this Code.

**9.33.1.2. Solid Fuel-Burning Appliances.** The installation of solid-fuel burning *stoves, ranges* and *space heaters*, including the requirements for combustion air, shall conform to CAN/CSA-B365-M, "Installation Code for Solid-Fuel Burning Appliances and Equipment".

##### **9.33.1.3. Design Temperatures**

(1) Residential *buildings* intended for occupancy in the winter months on a continuing basis shall be equipped with heating facilities capable of maintaining an indoor air temperature of 22°C at the outside winter design temperature except as provided in Sentences (4) and (5).

- (2) All *buildings* other than those described in Sentence (1) intended for *occupancy* in the winter months on

a continuing basis shall be equipped with heating facilities to maintain a minimum indoor air temperature of 18°C or commensurate with the use of the building at the outside winter design temperature.

(3) The outside conditions to be used in designing heating, ventilating and *air-conditioning* systems shall be the appropriate values for the municipality as set in Section 2.5 Climatic Data, using 2.5 per cent design temperature criteria.

(4) Heating facilities shall be provided which shall be capable of maintaining a temperature of not less than 18°C in an unfinished *basement* in *buildings of residential occupancy*.

(5) Where crawl spaces are required to be heated, the heating facilities shall be capable of maintaining a temperature of not below 15°C.

### 9.33.2. Fire Protection for Gas and Electric Ranges

#### 9.33.2.1. Vertical Clearance

(1) Except as provided in Sentence (2), a vertical clearance of not less than 750 mm shall be provided above the elements or burners of electric- and gas-fired domestic ranges.

(2) Where cabinets located above the elements or burners referred to in Sentence (1) are *noncombustible* or are protected with asbestos millboard at least 6 mm thick, covered with sheet metal not less than 0.33 mm thick, or by a metal hood with a 125 mm projection beyond the upper cabinets, the vertical clearance may be reduced to 600 mm.

**9.33.2.2. Clearance to Wall Framing.** *Combustible* wall framing members within 450 mm of the area where the range is to be located shall be protected above the level of the heating elements by material providing fire resistance at least equivalent to a 9.5 mm thickness of gypsum board.

### Section 9.34 Electrical Facilities

#### 9.34.1. General

**9.34.1.1. Standard for Electrical Installations.** Reserved.

**9.34.1.2. Required Facilities.** Where electrical services are available, electrical facilities shall be provided for every *building* in conformance with this Section.

**9.34.1.3. Location of Equipment in Public Areas.** Entrance switches, meters, panel boxes, splitter boxes, time clocks and other similar equipment shall not be located in any public area unless adequate precautions are taken to prevent interference with the equipment.

**9.34.1.4. Recessed Lighting Fixtures.** Recessed lighting fixtures shall not be located in insulated ceilings unless the fixtures are designed for such installations.

**9.34.1.5.** Reserved.

#### 9.34.2. Lighting Outlets

**9.34.2.1. Lighting of Entrances.** An exterior lighting outlet with fixture controlled by a wall switch located within the *building* shall be provided at every entrance to *buildings of residential occupancy*.

#### 9.34.2.2. Outlets in Dwelling Units

(1) Except as provided in Sentence (2), a lighting outlet with fixture controlled by a wall switch shall be provided in kitchens, bedrooms, living rooms, utility rooms, laundry rooms, dining rooms, bathrooms, water-closet rooms, vestibules and hallways in *dwelling units*.

(2) Where a receptacle controlled by a wall switch is provided in bedrooms or living rooms, such rooms need not conform to the requirements of Sentence (1).

#### 9.34.2.3. Stairways

(1) Every stairway shall be lighted.

(2) Except as provided in Sentence (3), 3-way wall switches located at the head and foot of every stairway shall be provided to control not less than one lighting outlet with fixture for stairways with 4 or more risers in *dwelling units*.

(3) The stairway lighting for *basements* that do not contain finished space or lead to an outside entrance or built-in garage and which serve not more than one *dwelling unit* may be controlled by a single switch located at the head of the stairs.



**9.34.2.4. Basements**

(1) A lighting outlet with fixture shall be provided for each 30 m<sup>2</sup> or fraction thereof of floor area in unfinished *basements*.

(2) The outlet required in Sentence (1) nearest the stairs shall be controlled by a wall switch located at the head of the stairs.

**9.34.2.5. Storage Rooms.** A lighting outlet with fixture shall be provided in storage rooms.

**9.34.2.6. Garages and Carports**

(1) A lighting outlet with fixture shall be provided for an attached, built-in or detached garage or carport.

(2) Outlets required in Sentence (1) shall be controlled by a wall switch near the doorway where the fixture is ceiling mounted above an area normally occupied by a parked car; otherwise a switched lampholder may be used.

(3) Where a carport is lighted by a light at the entrance to a *dwelling unit*, additional carport lighting is not required.

**9.34.2.7. Public and Service Areas**

(1) Every public or service area in *buildings*, including a *recreational camp* and a *camp for housing of workers*, shall have lighting outlets with fixtures controlled by a wall switch or panel.

(2) When provided by incandescent lighting, illumination required in Sentence (1) shall conform to Table 9.34.2.A.

(3) When other types of lighting are used, illumination equivalent to that shown in Table 9.34.2.A. shall be provided.

**Table 9.34.2.A.**  
Forming Part of Sentences 9.34.2.7.(2) and (3)

Minimum Lighting for Public Areas		
Room or Space	lx	W/m <sup>2</sup> of floor area (Incandescent Lighting)
Storage rooms	50	5
Service rooms and laundry areas	200	20
Garages	50	5
Public water-closet rooms	100	10
Service hallways and stairways	50	5
Recreation rooms	100	10
Recreational camps and camps for housing of workers:		
Hallways, corridors, stairways and sleeping areas	100	10
Kitchens	500	50
All other rooms	250	25
Column 1	2	3

**9.34.3. Emergency Lighting**

**9.34.3.1. Emergency Lighting.** Emergency lighting shall conform to Subsection 9.9.11.

**9.34.4. Service Entrance Requirements****9.34.4.1. Meter Mounting Device**

(1) Except in the case of externally mounted read-outs, each new residential consumer service of 200 amperes or less shall have a meter mounting device located outdoors in an accessible location.

(2) For the purposes of this Subsection, the front of the *building* is the side nearest the utility distribution line.

**9.34.4.2. Location of Meter Mounting Device.**

(1) Meter mounting devices shall be installed on the wall of the *building* or where that is not possible, on a separate support, so that the midpoint of the meter after installation will be 1.75 m plus or minus 100 mm from finished *grade*.

(2) Meter mounting devices shall be located not more than 3.00 m back from the front of the single family and semi-detached homes.

#### **9.34.4.3. Location of Consumer Service Standpipe**

(1) For an underground supply, the bottom of the consumer service standpipe shall be located not more than 3.00 m from the corner of the *building*.

(2) For an overhead supply, the top of the consumer service standpipe shall be located not more than 3.00 m from the corner of the *building* except that where this location does not permit a 4.50 m clearance at the point of attachment of the service conductors to the *building*, the top of the standpipe may be extended to a point not more than half way along the *building*.

#### **9.34.4.4. Meter Mounting Device**

(1) The meter mounting device shall be

- (a) one hundred ampere capacity except when the service equipment is to be greater,
- (b) standardized for each service size, and
- (c) capable of accepting 2 in. IPS conduit of steel, aluminum, copper or PVC if intended for underground service entrance.

#### **9.34.4.5. Underground Service**

(1) For consumer services supplied underground

- (a) a 2 in. IPS steel, aluminum, copper or PVC conduit shall be attached to the bottom of the meter-mounting device and shall terminate in the earth at a point at least 900 mm below *grade* and a conduit bushing shall be attached to the conduit in the earth, and
- (b) the conductors on the line side of the meter and those on the load side of the meter shall not be installed in the same conduit.

### **Section 9.35 Garages and Carports**

#### **9.35.1. Scope**

**9.35.1.1. Application.** This Section applies to garages and carports serving not more than 1 *dwelling unit*.

**9.35.1.2. Construction Requirements.** The construction of a garage or carport shall conform to the requirements for other *buildings* in this Part except as provided in this Section.

#### **9.35.2. General**

**9.35.2.1. Roofed Enclosure Considered as Garage.** Where a roofed enclosure used for the storage or parking of a car or cars has more than 60 per cent of the total perimeter enclosed by walls, doors or windows, the enclosure shall be considered a garage.

**9.35.2.2. Garage Floor.** Where an attached or built-in garage is provided, the garage floor shall be sloped to drain liquids to the outdoors.

#### **9.35.3. Foundations**

**9.35.3.1. Foundation Required.** Except as permitted in this Subsection, *foundations* conforming to Sections 9.12 and 9.15 shall be provided for the support of carport and garage super-structures, including that portion beneath garage doors.

#### **9.35.3.2. Protection from Damage due to Soil Movement**

(1) In clay-type *soils* subject to significant movement with a change in *soil* moisture content, the *foundation* depth of carports or garages connected to a *dwelling unit* by a breezeway shall be approximately the same depth as the main *building foundation*.

(2) Where slab-on-ground construction is used, a construction joint shall be provided between the main *building* slab and the garage or breezeway or carport slab.

(3) *Foundations* for attached unheated garages or carports shall be below frost level, except as provided in Section 9.12.

**9.35.3.3. Small Garages.** Detached garages of less than 50 m<sup>2</sup> floor area and not more than 1 *storey* in height may be supported on wood mud sills provided the garage is not of masonry or masonry veneer construction.

**9.35.3.4. Column Piers**

(1) Piers for the support of carport columns shall extend not less than 150 mm above ground level.

(2) Piers shall project not less than 25 mm beyond the base of the column but in no case be less than 190 mm by 190 mm in size.

**9.35.4. Walls and Columns**

**9.35.4.1. Interior Finish.** Interior finish need not be applied to garage and carport walls.

**9.35.4.2. Columns.** Columns for garages and carports shall conform to Section 9.17, except that 89 mm by 89 mm wood columns may be used.

**9.35.4.3. Anchorage.** Garage or carport walls and columns shall be anchored to the *foundation* to resist wind uplift in conformance with Subsection 9.23.6., except that where a garage is supported on the surface of the ground, ground anchors shall be provided to resist wind uplift.

**Section 9.36 Cottages**

**9.36.1. Scope**

**9.36.1.1. Application**

(1) This Section applies to *buildings* of *residential occupancy* used or intended to be used as seasonal recreational *buildings*.

(2) The *buildings* described in Sentence (1) shall comply with all the requirements of this Part, except where they are specifically exempted in this Section.

**9.36.2. General**

**9.36.2.1. Exclusions**

(1) Except as provided in Article 9.36.3.1. and Subsection 9.10.15., *buildings* used or intended to be used as seasonal recreational *buildings* need not comply with Sections 9.5 to 9.7 and 9.9 to 9.11.

(2) Flooring need not comply with Section 9.31, but tight-fitting floors shall be provided to support the *live* and *dead loads*.

(3) Thermal insulation, vapour barrier, interior finishes, plumbing, heating, *air-conditioning* and electrical facilities, need not be provided, but where any of these are provided, they shall comply with the requirements of this Part.

(4) Where heating and *air-conditioning* are provided, Articles 9.33.1.3. and 9.33.1.4. need not be complied with.

**9.36.2.2. Foundations**

(1) Continuous perimeter *foundation* walls are not required, but when they are provided, they shall comply with the requirements of this Part.

(2) Where unit masonry columns are used, the height of such columns shall not exceed

- (a) in the case of hollow masonry units, 4 times the least dimension of the units,
- (b) in the case of solid masonry units or hollow units with voids filled with concrete, 10 times the least dimension of the column, or
- (c) where the column is reinforced with at least four 13 mm diameter bars and filled with concrete, 18 times the least dimension of the column.

(3) Columns in excess of the height limitations of Clause (a), (b), or (c) shall be designed in accordance with Part 4.

**9.36.2.3. Waterproofing and Dampproofing.** Where *foundations* below ground level and concrete floors on *grade* are used, they shall comply with Section 9.13, "Waterproofing and Dampproofing".

### 9.36.3. Tourist Accommodation

**9.36.3.1. Buildings for Seasonal Tourist Accommodation or for Rent.** Where *buildings* are used or intended to be used for seasonal tourist accommodation or for rent, they shall comply with Sections 9.5 to 9.8 in addition to the requirements of this Section.

### Section 9.37 Log Construction

#### 9.37.1. General

**9.37.1.1. Material Requirements.** Logs which are sound and free of fractures may be used for *foundations*, beams, posts and similar members providing it can be shown by a structural analysis or tests or previous experience that the strength of the member is adequate for its intended purposes.

**9.37.1.2. Requirement for Wood Preservative.** The portion of any log coming in contact with masonry or concrete at or below *grade* shall be treated with a wood preservative to prevent decay.

**9.37.1.3. Exterior Joints.** All exterior joints between logs shall be rendered water-tight by methods such as machined joints, oakum packing, cement parging, chinking, caulking or a combination of these.

#### 9.37.2. Walls

**9.37.2.1. Logs.** Walls may be built of natural or manufactured logs.

**9.37.2.2. Attachment of Logs.** Walls made of logs in a horizontal position shall have interlocking inter-sections which will prevent the collection of water in the joints, or the horizontal logs shall butt to a vertical corner post to which the horizontal logs shall be firmly attached.

**9.37.2.3. Joining Logs.** Each log in a horizontal position shall be scribed as close as possible to its bearer and fastened to the bearer in at least three places throughout its length, by dowels, continuous machined joints, vertical framing members or interlocking intersections or any combination of these, but in no case shall the distance between fastenings exceed 1.80 m.

**9.37.2.4. Vertical Logs.** Each log in a wall built of vertical logs shall be scribed to fit as closely as possible to the adjacent logs.

**9.37.2.5. Plates.** Logs used in a vertical position shall have a plate the top and a plate at the bottom, which are at least as wide as the largest end diameter of any of the logs.

#### 9.37.3. Lintels

**9.37.3.1. Support Over Openings.** Logs placed in vertical position shall be supported over window and door openings by lintels meeting the requirements of Table 9.23.12.A.

**9.37.3.2. Clearance.** At every opening in a wall made of logs in a horizontal position where shrinkage can occur there shall be a clearance between the rough buck header and the lintel log of not less than 13 mm in width for each 300 mm of height to allow for settlement.

### Section 9.38 Thermal Design

#### 9.38.1. Scope

**9.38.1.1. Application.** This Section applies to the thermal design of a *building of residential occupancy* where such design is an alternative to the thermal insulation requirements of Section 9.25.

#### 9.38.2. General

**9.38.2.1. Materials and Installation.** The materials for, and the installation of, thermal insulation and vapour barrier protection shall conform to Section 9.25.

**9.38.2.2. Protection of Foamed Plastic.** Foamed plastic thermal insulation shall be protected as described in Article 9.10.16.10.

**9.38.2.3. Crawl Spaces.** Crawl spaces shall comply to Section 9.18.

**9.38.2.4. Roof Spaces.** Roof spaces shall comply to Section 9.19.

**9.38.2.5. Ventilation.** Ventilation requirements shall comply to Section 9.32 except as provided in Subsection 9.38.7.

**9.38.2.6. Heating and Air Conditioning.** Heating and *air conditioning* requirements shall comply to Section 9.33.



9.38.3. Thermal Resistance of Assemblies

9.38.3.1. Except as provided in Articles 9.38.3.2. to 9.38.3.6., and except for doors, windows, skylights and other *closures*, the thermal resistance of each *building* assembly through any portion that does not include framing or furring shall conform to Table 9.38.3.A.

Table 9.38.3.A.  
Forming Part of Article 9.38.3.1.

Minimum Thermal Resistance (RSI-Value) m <sup>2</sup> C/W		
Building Assembly	Maximum Number of Celsius Degree Days	
	Up to 5000	Above 5000
Exposed walls	3.0	3.4
Exposed roof or ceiling		
— frame	5.6	6.4
— solid	3.0	3.4
Foundation walls		
— solid	1.5	1.5
— frame	3.0	3.4
Exposed floors		
— frame	4.7	4.7
— solid	3.0	3.4
Slab-on-ground at grade		
— unheated	1.3	1.7
— heated	1.7	2.1
Column 1	2	3

Notes to Table 9.38.3.A.:

- (1) "Exposed" means exposed to outdoor temperature or unheated area.
- (2) "Solid" means brick concrete blocks or concrete.
- (3) "Frame" means a wood or steel stud frame to which interior and exterior cladding is applied.
- (4) "RSI value" shown for slab-on-ground at grade is for rigid insulation.
- (5) Slab-on-ground at grade - "heated" means a concrete floor containing heating ducts or pipes. "unheated" means a concrete floor not containing ducts or pipes.

9.38.3.2. Except as provided in Article 9.38.3.3., the thermal resistance of the insulated portion of a *building* assembly in Sentence 9.38.1.1.(1) that incorporates metal framing elements, such as steel studs and steel joists, that act as thermal bridges to facilitate heat flow through the assembly, shall be 20 per cent greater than the values shown in Table 9.38.3.A., unless it can be shown that the heat flow is not greater than the heat flow through a wood frame assembly of the same thickness.

9.38.3.3. Article 9.38.3.2. for *building* assemblies incorporating thermal bridges does not apply where the thermal bridges are insulated to restrict heat flow through the thermal bridges by a material providing a thermal resistance at least equal to 25 per cent of the thermal resistance required for the insulated portion of the assembly in Article 9.38.3.1.

9.38.3.4. The thermal resistance of a *building* assembly may be reduced by not more than 20 per cent from that required in Articles 9.38.3.1. and 9.38.3.2., and the amount of glazing may be increased to more than permitted in Article 9.38.4.3., where it can be shown that the total calculated heat loss from the *building* enclosure does not exceed the heat loss that would result if the enclosure were constructed in conformance with the minimum thermal resistance requirements in Articles 9.38.3.1. and 9.38.3.2. and with the maximum amount of glazing permitted in Article 9.38.4.3., provided no allowance is made for solar heat gains or for the orientation of the glazing as described in Article 9.38.4.5.

9.38.3.5. The thermal resistance values in Article 9.38.3.1. and 9.38.3.2. for roof or ceiling assemblies separating heated space from unheated space or the exterior may be reduced near the eaves to the extent made necessary by the roof slope and required ventilation clearances, except that the thermal resistance at the location directly above the inner surface of the exterior wall shall be at least 2.1 m<sup>2</sup>C/W.

**9.38.3.6.** The thermal resistance values required in Article 9.38.3.1. may be reduced to take into account the effect of thermal inertia resulting from the mass of the *building* in conformance with Building Research Note No. 126, published by the Division of Building Research, National Research Council of Canada, January 1978.

**9.38.3.7.** Insulation applied to the exterior of a *foundation* wall or slab-on-ground floor shall extend down at least 600 mm below the adjacent exterior ground level or shall extend down and outward from the floor or wall for a total distance of at least 600 mm measured from the adjacent finished ground level.

**9.38.3.8.** Insulation applied to the interior of a *foundation* wall shall extend from the underside of the flooring above such walls, down to at least 600 mm below the exterior adjacent ground level.

**9.38.3.9.** Every *foundation* wall face having more than 50 per cent of its area exposed to outside air and those parts of foundation walls of wood-frame construction above exterior ground level shall have a thermal resistance conforming to the requirement for wall assemblies above ground level in Table 9.38.3.A.

#### **9.38.4. Glazing**

**9.38.4.1.** Except as provided in Articles 9.38.4.2. and 9.38.4.4., all glazing that separates heated space from unheated space or the exterior shall have a thermal resistance of at least  $0.30 \text{ m}^2\text{C/W}$ .

**9.38.4.2.** Where an enclosed unheated space, such as a sun porch, enclosed verandah or vestibule, is separated from a heated space by glazing, the unheated enclosure may be considered to provide thermal resistance of  $0.16 \text{ m}^2\text{C/W}$ , or the equivalent of one layer of glazing.

**9.38.4.3.** Except as provided in Articles 9.38.4.4. and 9.38.4.5., the total area of glazing, including glazing for doors and skylights, that separates heated space from unheated space or the exterior shall not exceed 20 per cent of the *floor area* of the *storey* served by the glazed areas and shall not exceed 40 per cent of the total area of the walls of that *storey* separating heated space from unheated space or the exterior. (In the case of a sloping wall, the area of the opaque portion of the wall is calculated as its projected area on a vertical plane.)

**9.38.4.4.** Where the thermal resistance of glazing is different from that required in Articles 9.38.4.1. and 9.38.4.2., the area of such glazing for the purpose of applying Article 9.38.4.3. may be assumed as being equal to the actual area multiplied by the ratio of the required thermal resistance divided by the actual thermal resistance of the glazing.

**9.38.4.5.** Except as provided in Article 9.38.4.6., the area of glazing that contains clear glass or that has a shading coefficient of more than 0.70 that is unshaded in the winter and faces a direction within  $45^\circ$  of due South may be assumed to be 50 per cent of its unshaded area in calculating the maximum area of glazing in Articles 9.38.4.3. and 9.38.4.4. provided the *building* is designed with a system that is capable of distributing the solar heat gain from such glazed areas throughout the *building*. For the purpose of determining whether or not the glazing is shaded in the winter, the shading shall be calculated using the noon sun angles of December 21.

**9.38.4.6.** Article 9.38.4.5. shall not apply where the *building* is designed to be cooled unless the glazing described in 9.38.4.5. is shaded in the summer with exterior devices. For the purpose of determining whether or not the glazing is shaded in the summer, the shading shall be calculated using the noon sun angles of June 21.

#### **9.38.5. Doors and Windows**

**9.38.5.1.** Air curtains shall not be used in place of exterior doors.

**9.38.5.2.** Except for doors used primarily to facilitate the movement of vehicles or handling of material, infiltration around doors shall conform to the appropriate requirements in Subsection 9.38.6.

**9.38.5.3.** Except for doors on enclosed unheated vestibules, all doors separating heated space from the outside shall conform to the appropriate requirements of Section 9.6.

**9.38.5.4.** Windows shall conform to the appropriate requirements of Section 9.7.

#### **9.38.6. Infiltration**

**9.38.6.1.** Windows separating heated space from unheated space or the exterior shall be designed to limit the rate of air infiltration to not more than  $0.775 \text{ dm}^3/\text{s}$  for each metre of sash crack when tested at pressure differential of 75 Pa in conformance with ASTM E283, "Standard Method of Test for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors".

**9.38.6.2.** Manually operated exterior sliding glass door assemblies that separate heated space from unheated space or the exterior shall be designed to limit air infiltration to not more than  $2.5 \text{ dm}^3/\text{s}$  for each square metre of door area when tested in conformance with Article 9.38.6.1.

**9.38.6.3.** Except where the door is weather-stripped on all edges and protected with a storm door or by an enclosed unheated space, exterior swing type door assemblies for *dwelling units*, individually rented hotel and motel rooms and suites shall be designed to limit the rate of air infiltration to not more than 6.35 dm<sup>3</sup>/s for each square metre of door area when tested in conformance with Article 9.38.6.1.

**9.38.6.4.** Door assemblies other than those described in Articles 9.38.6.2. and 9.38.6.3. that separate heated space from unheated space or the exterior shall be designed to limit the rate of air infiltration to not more than 17.0 dm<sup>3</sup>/s for each metre of door crack when tested in conformance with Article 9.38.6.1.

**9.38.6.5.** Caulking material to reduce air infiltration shall conform to the requirements in Subsection 9.27.4.

**9.38.6.6.** The junction between the sill plate and the *foundation*, joints between exterior wall panels and any other location where there is a possibility of air leakage into heated spaces in a *building* through the exterior walls, such as at utility service entrances, shall be caulked, gasketed or sealed to restrict such air leakage.

**9.38.6.7.** Air leakage between heated space and adjacent roof or attic space caused by the penetration of services shall be restricted in conformance with the requirements of Subsection 9.25.5.

**9.38.7. Ventilation**

**9.38.7.1.** Fresh air for the ventilation of rooms and spaces in *buildings* of *residential occupancy* shall be provided at a rate of at least 0.3 air change per hour by a combination of natural and mechanical ventilation.

**Table A-1**  
Forming Part of Sentence 9.23.4.1.(1)

Floor Joists - Living Quarters											
Commercial Designation	Grade	Member Size,	Strapping Only			Bridging Only			Strapping and Bridging		
			Joist Spacing			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
		mm	m	m	m	m	m	m	m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	2.13	1.97	1.73	2.19	1.99	1.73	2.19	1.99	1.73
		38x140	3.23	3.07	2.73	3.44	3.12	2.73	3.44	3.12	2.73
		38x184	3.88	3.69	3.51	4.18	3.92	3.59	4.37	4.07	3.59
		38x235	4.57	4.34	4.13	4.86	4.57	4.29	5.05	4.70	4.39
		38x286	5.21	4.95	4.71	5.49	5.16	4.85	5.66	5.28	4.92
	No. 1 and No. 2	38x89	2.00	1.85	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38x140	3.09	2.91	2.62	3.29	2.99	2.62	3.29	2.99	2.62
		38x184	3.71	3.53	3.36	4.00	3.76	3.44	4.19	3.90	3.44
		38x235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
		38x286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
	No. 3	38x89	1.90	1.69	1.38	1.95	1.69	1.38	1.95	1.69	1.38
		38x140	2.78	2.41	1.97	2.78	2.41	1.97	2.78	2.41	1.97
		38x184	3.38	2.93	2.39	3.38	2.93	2.39	3.38	2.93	2.39
		38x235	4.14	3.58	2.93	4.14	3.58	2.93	4.14	3.58	2.93
		38x286	4.80	4.16	3.39	4.80	4.16	3.39	4.80	4.16	3.39
	Construction	38x89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38x89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55
<b>Hemlock Fir-</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.08	1.93	1.71	2.16	1.96	1.71	2.16	1.96	1.71
		38x140	3.18	3.03	2.69	3.39	3.08	2.69	3.39	3.08	2.69
		38x184	3.82	3.64	3.46	4.12	3.87	3.54	4.31	4.02	3.54
		38x235	4.50	4.28	4.08	4.80	4.51	4.23	4.98	4.64	4.33
		38x286	5.14	4.89	4.65	5.42	5.09	4.78	5.59	5.21	4.86
	No. 1 and No. 2	38x89	2.00	1.85	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38x140	3.09	2.91	2.62	3.29	2.99	2.62	3.29	2.99	2.62
		38x184	3.71	3.53	3.36	4.00	3.76	3.44	4.19	3.90	3.44
		38x235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
		38x286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
	No. 3	38x89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
		38x140	2.99	2.78	2.43	3.19	2.90	2.43	3.19	2.90	2.43
		38x184	3.60	3.42	2.95	3.88	3.61	2.95	4.06	3.61	2.95
		38x235	4.24	4.03	3.61	4.51	4.24	3.61	4.68	4.37	3.61
		38x286	4.84	4.60	4.19	5.10	4.79	4.19	5.26	4.90	4.19
	Construction	38x89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38x89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55



Table A-1 (Continued)

Floor Joists - Living Quarters											
Commercial Designation	Grade	Member Size,	Strapping Only			Bridging Only			Strapping and Bridging		
			Joist Spacing			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
		mm	m	m	m	m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	1.95	1.81	1.64	2.06	1.87	1.64	2.06	1.87	1.64
		38x140	3.05	2.85	2.57	3.24	2.95	2.57	3.24	2.95	2.57
		38x184	3.66	3.48	3.31	3.94	3.70	3.38	4.12	3.84	3.38
		38x235	4.31	4.10	3.90	4.59	4.31	4.05	4.76	4.44	4.14
		38x286	4.91	4.67	4.45	5.18	4.87	4.57	5.34	4.98	4.64
	No. 1 and No. 2	38x89	1.86	1.72	1.58	1.99	1.81	1.58	1.99	1.81	1.58
		38x140	2.92	2.71	2.49	3.14	2.85	2.49	3.14	2.85	2.49
		38x184	3.54	3.36	3.20	3.81	3.58	3.27	3.99	3.72	3.27
		38x235	4.17	3.96	3.77	4.44	4.17	3.92	4.60	4.29	4.00
		38x286	4.75	4.52	4.30	5.01	4.71	4.42	5.17	4.82	4.49
	No. 3	38x89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55
		38x140	2.84	2.64	2.43	3.08	2.80	2.43	3.08	2.80	2.43
		38x184	3.47	3.30	2.95	3.74	3.52	2.95	3.92	3.61	2.95
		38x235	4.09	3.89	3.61	4.36	4.09	3.61	4.52	4.22	3.61
		38x286	4.67	4.44	4.19	4.92	4.62	4.19	5.08	4.73	4.19
	Construction	38x89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55
	Standard	38x89	1.70	1.58	1.47	1.88	1.71	1.50	1.88	1.71	1.50
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	1.65	1.53	1.42	1.84	1.68	1.46	1.84	1.68	1.46
		38x140	2.59	2.41	2.24	2.90	2.63	2.30	2.90	2.63	2.30
		38x184	3.27	3.11	2.94	3.52	3.31	3.03	3.69	3.44	3.03
		38x235	3.85	3.66	3.48	4.10	3.85	3.62	4.26	3.97	3.70
		38x286	4.39	4.18	3.97	4.63	4.35	4.09	4.78	4.45	4.15
	No. 1 and No. 2	38x89	1.59	1.48	1.37	1.80	1.64	1.43	1.80	1.64	1.43
		38x140	2.51	2.33	2.16	2.83	2.57	2.25	2.83	2.57	2.25
		38x184	3.19	3.04	2.84	3.44	3.23	2.96	3.60	3.36	2.96
		38x235	3.76	3.58	3.41	4.01	3.77	3.54	4.16	3.88	3.62
		38x286	4.29	4.08	3.88	4.53	4.25	4.00	4.67	4.35	4.06
	No. 3	38x89	1.54	1.43	1.32	1.74	1.57	1.36	1.76	1.60	1.36
		38x140	2.42	2.24	1.94	2.74	2.38	1.94	2.75	2.28	1.94
		38x184	3.12	2.90	2.37	3.35	2.90	2.37	3.35	2.90	2.37
		38x235	3.67	3.49	2.89	3.91	3.54	2.89	4.06	3.54	2.89
		38x286	4.19	3.98	3.36	4.42	4.11	3.36	4.55	4.11	3.36
	Construction	38x89	1.54	1.43	1.32	1.74	1.57	1.40	1.76	1.60	1.40
	Standard	38x89	1.48	1.37	1.27	1.67	1.51	1.36	1.71	1.55	1.36

Table A-2  
Forming Part of Sentence 9.23.4.1.(1)

Floor Joists - Bedrooms and Accessible Attics											
Commercial Designation	Grade	Member Size,	Strapping Only			Bridging Only			Strapping and Bridging		
			Joist Spacing			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
		mm	m	m	m	m	m	m	m	m	m
Douglas Fir-Larch (includes Douglas Fir and Western Larch)	Select Structural	38x89	2.13	1.97	1.83	2.42	2.20	1.92	2.42	2.20	1.92
		38x140	3.23	3.07	2.88	3.53	3.31	3.02	3.72	3.46	3.02
		38x184	3.88	3.69	3.51	4.18	3.92	3.69	4.37	4.07	3.80
		38x235	4.57	4.34	4.13	4.86	4.57	4.29	5.05	4.70	4.39
		38x286	5.21	4.95	4.71	5.49	5.16	4.85	5.66	5.28	4.92
	No. 1 and No. 2	38x89	2.00	1.85	1.72	2.31	2.09	1.84	2.32	2.11	1.84
		38x140	3.09	2.91	2.70	3.38	3.17	2.90	3.57	3.31	2.90
		38x184	3.71	3.53	3.36	4.00	3.76	3.53	4.19	3.90	3.64
		38x235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
		38x286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
	No. 3	38x89	1.90	1.77	1.57	2.19	1.93	1.57	2.23	1.93	1.57
		38x140	2.99	2.75	2.25	3.18	2.75	2.25	3.18	2.75	2.25
		38x184	3.60	3.35	2.73	3.86	3.35	2.73	3.86	3.35	2.73
		38x235	4.24	4.03	3.34	4.51	4.09	3.34	4.68	4.09	3.34
		38x286	4.84	4.60	3.88	5.10	4.75	3.88	5.26	4.75	3.88
	Construction	38x89	1.90	1.77	1.64	2.19	1.98	1.78	2.25	2.04	1.78
	Standard	38x89	1.81	1.68	1.56	2.07	1.88	1.70	2.17	1.97	1.72
Hemlock Fir- (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.08	1.93	1.80	2.39	2.17	1.89	2.39	2.17	1.89
		38x140	3.18	3.03	2.82	3.48	3.27	2.98	3.67	3.41	2.98
		38x184	3.82	3.64	3.46	4.12	3.87	3.64	4.31	4.02	3.75
		38x235	4.50	4.28	4.08	4.80	4.51	4.23	4.98	4.64	4.33
		38x286	5.14	4.89	4.65	5.42	5.09	4.78	5.59	5.21	4.86
	No. 1 and No. 2	38x89	2.00	1.85	1.72	2.31	2.09	1.84	2.32	2.11	1.84
		38x140	3.09	2.91	2.70	3.38	3.17	2.90	3.57	3.31	2.90
		38x184	3.71	3.53	3.36	4.00	3.76	3.53	4.19	3.90	3.64
		38x235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
		38x286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
	No. 3	38x89	1.90	1.77	1.64	2.19	1.98	1.78	2.25	2.04	1.78
		38x140	2.99	2.78	2.58	3.27	3.08	2.77	3.46	3.21	2.77
		38x184	3.60	3.42	3.26	3.88	3.64	3.37	4.06	3.78	3.37
		38x235	4.24	4.03	3.84	4.51	4.24	3.98	4.68	4.37	4.07
		38x286	4.84	4.60	4.37	5.10	4.79	4.50	5.26	4.90	4.57
	Construction	38x89	1.90	1.77	1.64	2.19	1.98	1.78	2.25	2.04	1.78
	Standard	38x89	1.81	1.68	1.56	2.07	1.88	1.70	2.17	1.97	1.72

Table A-2 (Cont'd)

Floor Joists - Bedrooms and Accessible Attics											
Commercial Designation	Grade	Member Size,	Strapping Only			Bridging Only			Strapping and Bridging		
			Joist Spacing			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
		mm	m	m	m	m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	1.95	1.81	1.68	2.25	2.04	1.81	2.28	2.07	1.81
		38x140	3.05	2.85	2.64	3.33	3.13	2.85	3.51	3.26	2.85
		38x184	3.66	3.48	3.31	3.94	3.70	3.48	4.12	3.84	3.58
		38x235	4.31	4.10	3.90	4.59	4.31	4.05	4.76	4.44	4.14
		38x286	4.91	4.67	4.45	5.18	4.87	4.57	5.34	4.98	4.64
	No. 1 and No. 2	38x89	1.86	1.72	1.60	2.14	1.93	1.75	2.21	2.01	1.75
		38x140	2.92	2.71	2.51	3.22	3.02	2.75	3.40	3.16	2.76
		38x184	3.54	3.36	3.20	3.81	3.58	3.36	3.99	3.72	3.47
		38x235	4.17	3.96	3.77	4.44	4.17	3.92	4.60	4.29	4.00
		38x286	4.75	4.52	4.30	5.01	4.71	4.42	5.17	4.82	4.49
	No. 3	38x89	1.81	1.68	1.56	2.07	1.88	1.70	2.17	1.97	1.72
		38x140	2.84	2.64	2.45	3.16	2.95	2.67	3.34	3.10	2.71
		38x184	3.47	3.30	3.14	3.74	3.52	3.30	3.92	3.65	3.37
		38x235	4.09	3.89	3.70	4.36	4.09	3.85	4.52	4.22	3.93
		38x286	4.67	4.44	4.22	4.92	4.62	4.34	5.08	4.73	4.41
	Construction	38x89	1.81	1.68	1.56	2.07	1.88	1.70	2.17	1.97	1.72
	Standard	38x89	1.70	1.58	1.47	1.95	1.76	1.59	2.09	1.89	1.66
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	1.65	1.53	1.42	1.88	1.70	1.54	2.04	1.83	1.62
		38x140	2.59	2.41	2.24	2.96	2.67	2.42	3.14	2.88	2.55
		38x184	3.27	3.11	2.94	3.52	3.31	3.11	3.69	3.44	3.20
		38x235	3.85	3.66	3.48	4.10	3.85	3.62	4.26	3.97	3.70
		38x286	4.39	4.18	3.97	4.63	4.35	4.09	4.78	4.45	4.15
	No. 1 and No. 2	38x89	1.59	1.48	1.37	1.81	1.64	1.48	1.98	1.76	1.56
		38x140	2.51	2.33	2.16	2.85	2.58	2.33	3.07	2.77	2.46
		38x184	3.19	3.04	2.84	3.44	3.23	3.04	3.60	3.36	3.13
		38x235	3.76	3.58	3.41	4.01	3.77	3.54	4.16	3.88	3.62
		38x286	4.29	4.08	3.88	4.53	4.25	4.00	4.67	4.35	4.06
	No. 3	38x89	1.54	1.43	1.32	1.74	1.57	1.42	1.90	1.69	1.50
		38x140	2.42	2.24	2.08	2.74	2.48	2.22	2.99	2.65	2.22
		38x184	3.12	2.95	2.70	3.36	3.16	2.70	3.51	3.28	2.72
		38x235	3.67	3.49	3.31	3.91	3.67	3.31	4.06	3.78	3.31
		38x286	4.19	3.98	3.79	4.42	4.15	3.84	4.55	4.25	3.84
	Construction	38x89	1.54	1.43	1.32	1.74	1.57	1.42	1.90	1.69	1.50
	Standard	38x89	1.48	1.37	1.27	1.67	1.51	1.36	1.82	1.61	1.43

**Table A-3**  
Forming Part of Sentence 9.23.4.1.(1)

Ceiling Joists - Attic Not Accessible by a Stairway					
Commercial Designation	Grade	Member Size,  mm	All Ceilings		
			Joist Spacing		
			300 mm	400 mm	600 mm
			m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	3.41	3.10	2.71
		38x140	5.37	4.88	4.26
		38x184	7.05	6.40	5.59
		38x235	9.01	8.18	7.15
		38x286	10.96	9.96	8.70
	No. 1 and No. 2	38x89	3.27	2.97	2.59
		38x140	5.14	4.67	4.08
		38x184	6.76	6.14	5.36
		38x235	8.63	7.84	6.85
		38x286	10.50	9.54	8.34
	No. 3	38x89	3.17	2.88	2.42
		38x140	4.89	4.23	3.46
		38x184	5.95	5.15	4.20
		38x235	7.27	6.30	5.14
		38x286	8.44	7.31	5.97
	Construction	38x89	3.17	2.88	2.51
	Standard	38x89	3.06	2.78	2.43
<b>Hemlock-Fir</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	3.36	3.06	2.67
		38x140	5.29	4.81	4.20
		38x184	6.96	6.32	5.52
		38x235	8.88	8.07	7.05
		38x286	10.81	9.82	8.58
	No. 1	38x89	3.27	2.97	2.59
		38x140	5.14	4.67	4.08
		38x184	6.76	6.14	5.36
		38x235	8.63	7.84	6.85
		38x286	10.50	9.54	8.34
	No. 3	38x89	3.17	2.88	2.51
		38x140	4.98	4.53	3.95
		38x184	6.55	5.95	5.19
		38x235	8.36	7.60	6.34
		38x286	10.18	9.01	7.36
	Construction	38x89	3.17	2.88	2.50
	Standard	38x89	3.06	2.78	2.43



Table A-3 (Cont'd)

Ceiling Joists - Attic Not Accessible by a Stairway					
Commercial Designation	Grade	Member Size,  mm	All Ceilings		
			Joist Spacing		
			300 mm	400 mm	600 mm
			m	m	m
Spruce-Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	3.22	2.92	2.55
		38x140	5.06	4.60	4.02
		38x184	6.65	6.05	5.28
		38x235	8.50	7.72	6.74
		38x286	10.34	9.40	8.21
	No. 1 and No. 2	38x89	3.11	2.83	2.47
		38x140	4.90	4.45	3.89
		38x184	6.44	5.85	5.11
		38x235	8.22	7.47	6.52
		38x286	10.00	9.09	7.94
	No. 3	38x89	3.06	2.78	2.43
		38x140	4.81	4.37	3.82
		38x184	6.32	5.74	5.02
		38x235	8.07	7.33	6.34
		38x286	9.82	8.93	7.36
	Construction	38x89	3.06	2.78	2.43
	Standard	38x89	2.94	2.67	2.33
Northern Species (includes any Canadian Softwood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	2.88	2.61	2.28
		38x140	4.53	4.11	3.59
		38x184	5.95	5.40	4.72
		38x235	7.60	6.90	6.03
		38x286	9.25	8.40	7.34
	No. 1 and No. 2	38x89	2.81	2.55	2.23
		38x140	4.42	4.02	3.51
		38x184	5.81	5.81	4.61
		38x235	7.42	6.74	5.89
		38x286	9.03	8.21	7.17
	No. 3	38x89	2.74	2.49	2.18
		38x140	4.31	3.92	3.42
		38x184	5.67	5.09	4.16
		38x235	7.19	6.23	5.08
		38x286	8.34	7.23	5.90
	Construction	38x89	2.74	2.49	2.18
	Standard	38x89	2.67	2.43	2.12

**Table A-4**  
Forming Part of Sentence 9.23.4.1.(1)

Roof Joists - (Design Roof Snow Loads 1.0 and 1.5 kPa)								
Commercial Designation	Grade	Member Size.  mm	1.0 kPa			1.5 kPa		
			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	2.71	2.46	2.15	2.37	2.15	1.88
		38x140	4.26	3.87	3.38	3.72	3.38	2.95
		38x184	5.60	5.09	4.44	4.89	4.44	3.88
		38x235	7.15	6.49	5.67	6.24	5.67	4.96
		38x286	8.70	7.90	6.91	7.60	6.91	6.03
	No. 1 and No. 2	38x89	2.59	2.36	2.06	2.27	2.06	1.80
		38x140	4.08	3.71	3.24	3.57	3.24	2.83
		38x184	5.36	4.87	4.26	4.69	4.26	3.72
		38x235	6.85	6.22	5.44	5.98	5.44	4.74
		38x286	8.34	7.57	6.40	7.28	6.62	5.50
	No. 3	38x89	2.49	2.16	1.76	2.14	1.85	1.51
		38x140	3.56	3.08	2.51	3.06	2.65	2.16
		38x184	4.33	3.75	3.06	3.72	3.22	2.63
		38x235	5.29	4.58	3.74	4.55	3.94	3.22
		38x286	6.14	5.32	4.34	5.28	4.57	3.73
	Construction	38x89	2.51	2.28	1.99	2.20	1.99	1.74
	Standard	38x89	2.43	2.20	1.93	1.12	1.93	1.68
<b>Hemlock Fir-</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.67	2.43	2.12	2.33	2.12	1.85
		38x140	4.20	3.82	3.33	3.67	3.33	2.91
		38x184	5.52	5.02	4.38	4.82	4.38	3.83
		38x235	7.05	6.41	5.60	6.16	5.60	4.89
		38x286	8.58	7.80	6.81	7.50	6.81	5.95
	No. 1 and No. 2	38x89	2.59	2.36	2.06	2.27	2.06	1.80
		38x140	4.08	3.71	3.24	3.57	3.24	2.83
		38x184	5.36	4.87	4.26	4.69	4.26	3.72
		38x235	6.85	6.22	5.44	5.98	5.44	4.75
		38x286	8.34	7.57	6.62	7.28	6.62	5.77
	No. 3	38x89	2.51	2.28	1.99	2.20	1.99	1.74
		38x140	3.95	3.59	3.10	3.45	3.14	2.67
		38x184	5.20	4.62	3.77	4.54	3.97	3.24
		38x235	6.53	5.65	4.61	5.61	4.86	3.97
		38x286	7.57	6.56	5.35	6.51	5.64	4.60
	Construction	38x89	2.51	2.28	1.99	2.20	1.99	1.74
	Standard	38x89	2.43	2.20	1.93	2.12	1.93	1.68

Table A-4 (Cont'd)

Roof Joists - (Design Roof Snow Loads 1.0 and 1.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	Strapping Only			Bridging Only		
			1.0 kPa			1.5 kPa		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	2.55	2.32	2.03	2.23	2.03	1.77
		38x140	4.02	3.65	3.19	3.51	3.19	2.79
		38x184	5.28	4.80	4.19	4.61	4.19	3.66
		38x235	6.74	6.13	5.35	5.89	5.35	4.68
		38x286	8.21	7.46	6.52	7.17	6.52	5.69
	No. 1 and No. 2	38x89	2.47	2.24	1.96	2.16	1.96	1.71
		38x140	3.89	3.53	3.08	3.40	3.08	2.69
		38x184	5.11	4.64	4.05	4.46	4.05	3.54
		38x235	6.52	5.93	5.18	5.70	5.18	4.52
		38x286	7.94	7.21	6.30	6.94	6.30	5.50
	No. 3	38x89	2.43	2.20	1.93	2.12	1.93	1.68
		38x140	3.82	3.47	3.03	3.33	3.03	2.65
		38x184	5.02	4.56	3.77	4.38	3.97	3.24
		38x235	6.41	5.65	4.61	5.60	4.86	3.97
		38x286	7.57	6.56	5.35	6.51	5.64	4.60
	Construction	38x89	2.43	2.20	1.93	2.12	1.93	1.68
	Standard	38x89	2.33	2.12	1.85	2.04	1.85	1.62
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	2.28	2.07	1.81	1.99	1.81	1.58
		38x140	3.59	3.26	2.85	3.14	2.85	2.49
		38x184	4.72	4.29	3.75	4.12	3.75	3.27
		38x235	6.03	5.48	4.79	5.27	4.79	4.18
		38x286	7.34	6.67	5.82	6.41	5.82	5.09
	No. 1 and No. 2	38x89	2.23	2.03	1.77	1.95	1.77	1.55
		38x140	3.51	3.19	2.79	3.07	2.79	2.43
		38x184	4.61	4.19	3.66	4.03	3.66	3.20
		38x235	5.89	5.35	4.68	5.15	4.68	4.09
		38x286	7.17	6.52	5.58	6.26	5.69	4.80
	No. 3	38x89	2.18	1.98	1.73	1.90	1.73	1.50
		38x140	3.42	3.05	2.49	2.99	2.62	2.14
		38x184	4.28	3.71	3.03	3.68	3.19	2.60
		38x235	5.23	4.53	3.70	4.50	3.90	3.18
		38x286	6.07	5.26	4.29	5.22	4.52	3.69
	Construction	38x89	2.18	1.98	1.73	1.90	1.73	1.51
	Standard	38x89	2.12	1.93	1.68	1.85	1.68	1.47

**Table A-5**  
Forming Part of Sentence 9.23.4.1.(1)

Roof Joists - (Design Roof Snow Loads 2.0 and 2.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	2.0 kPa			2.5 kPa		
			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	2.15	1.95	1.71	1.99	1.81	1.58
		38x140	3.38	3.07	2.68	3.14	2.85	2.49
		38x184	4.44	4.04	3.53	4.12	3.75	3.27
		38x235	5.67	5.15	4.50	5.27	4.79	4.18
		38x286	6.91	6.27	5.48	6.41	5.82	5.09
	No. 1 and No. 2	38x89	2.06	1.87	1.63	1.91	1.74	1.52
		38x140	3.24	2.94	2.57	3.01	2.73	2.39
		38x184	4.26	3.87	3.38	3.95	3.59	3.14
		38x235	5.44	4.94	4.22	5.05	4.59	3.84
		38x286	6.62	6.00	4.90	6.14	5.46	4.46
	No. 3	38x89	1.91	1.65	1.35	1.74	1.50	1.23
		38x140	2.72	2.36	1.92	2.48	2.15	1.75
		38x184	3.31	2.87	2.34	3.01	2.61	2.13
		38x235	4.05	3.51	2.86	3.69	3.19	2.61
		38x286	4.70	4.07	3.32	4.28	3.70	3.03
	Construction	38x89	1.99	1.81	1.58	1.85	1.68	1.47
	Standard	38x89	1.93	1.75	1.53	1.79	1.62	1.42
<b>Hemlock Fir-</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.12	1.93	1.68	1.97	1.79	1.56
		38x140	3.33	3.03	2.65	3.10	2.81	2.46
		38x184	4.38	3.98	3.48	4.07	3.70	3.23
		38x235	5.60	5.09	4.44	5.20	4.72	4.12
		38x286	6.81	6.19	5.41	6.32	5.75	5.02
	No. 1 and No. 2	38x89	2.06	1.87	1.63	1.91	1.74	1.52
		38x140	3.24	2.94	2.57	3.01	2.73	2.39
		38x184	4.26	3.87	3.38	3.95	3.59	3.14
		38x235	5.44	4.94	4.32	5.05	4.59	4.01
		38x286	6.62	6.01	5.25	5.14	5.58	4.68
	No. 3	38x89	1.99	1.81	1.58	1.85	1.68	1.47
		38x140	3.14	2.85	2.37	2.91	2.65	2.16
		38x184	4.09	3.54	2.89	3.72	3.22	2.63
		38x235	5.00	4.33	3.53	4.55	3.94	3.22
		38x286	5.80	5.02	4.10	5.28	4.57	3.73
	Construction	38x89	1.99	1.81	1.58	1.85	1.68	1.47
	Standard	38x89	1.93	1.75	1.53	1.79	1.62	1.42



Table A-5 (Cont'd)

Roof Joists - (Design Roof Snow Loads 2.0 and 2.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	2.0 kPa			2.5 kPa		
			Joist Spacing			Joist Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	2.03	1.84	1.61	1.88	1.71	1.49
		38x140	3.19	2.90	2.53	2.96	2.69	2.35
		38x184	4.19	3.81	3.33	3.89	3.54	3.09
		38x235	5.35	4.86	4.25	4.97	4.52	3.94
		38x286	6.52	5.92	5.17	6.05	5.50	4.80
	No. 1 and No. 2	38x89	1.96	1.78	1.56	1.82	1.65	1.44
		38x140	3.08	2.80	2.45	2.86	2.60	2.27
		38x184	4.05	3.68	3.22	3.76	3.42	2.99
		38x235	5.18	4.70	4.11	4.81	4.37	3.82
		38x286	6.30	5.73	5.00	5.85	5.31	4.64
	No. 3	38x89	1.93	1.75	1.53	1.79	1.62	1.42
		38x140	3.03	2.75	2.37	2.81	2.56	2.16
		38x184	3.98	3.54	2.89	3.70	3.22	2.63
		38x235	5.00	4.33	3.53	4.55	3.94	3.22
		38x286	5.80	5.02	4.10	5.28	4.57	3.73
	Construction	38x89	1.93	1.75	1.53	1.79	1.62	1.42
	Standard	38x89	1.85	1.68	1.47	1.72	1.56	1.36
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	1.81	1.65	1.44	1.68	1.53	1.34
		38x140	2.85	2.59	2.26	2.65	2.40	2.10
		38x184	3.75	3.40	2.97	3.48	3.16	2.76
		38x235	4.79	4.35	3.80	4.44	4.04	3.53
		38x286	5.82	5.29	4.62	5.41	4.91	4.29
	No. 1 and No. 2	38x89	1.77	1.61	1.41	1.64	1.49	1.31
		38x140	2.79	2.53	2.21	2.59	2.35	2.05
		38x184	3.66	3.33	2.91	3.40	3.09	2.70
		38x235	4.68	4.25	3.68	4.34	3.94	3.35
		38x286	5.69	5.17	4.27	5.28	4.76	3.89
	No. 3	38x89	1.73	1.57	1.33	1.60	1.46	1.21
		38x140	2.69	2.33	1.90	2.45	2.12	1.73
		38x184	3.28	2.84	2.32	2.98	2.58	2.11
		38x235	4.01	3.47	2.83	3.65	3.16	2.58
		38x286	4.65	4.03	3.29	4.23	3.66	2.99
	Construction	38x89	1.73	1.57	1.37	1.60	1.46	1.27
	Standard	38x89	1.68	1.53	1.34	1.56	1.42	1.24

**Table A-6**  
Forming Part of Sentence 9.23.4.1.(1)

Roof Rafters - (Design Roof Snow Loads 1.0 and 1.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	1.0 kPa			1.5 kPa		
			Rafter Spacing			Rafter Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	3.41	3.10	2.71	2.98	2.71	2.37
		38x140	3.38	3.07	2.68	3.14	2.85	2.49
		38x184	4.44	4.04	3.53	4.12	3.75	3.27
		38x235	5.67	5.15	4.50	5.27	4.79	4.18
		38x286	6.91	6.27	5.48	6.41	5.82	5.09
	No. 1 and No. 2	38x89	2.06	1.87	1.63	1.91	1.74	1.52
		38x140	3.24	2.94	2.57	3.01	2.73	2.39
		38x184	4.26	3.87	3.38	3.95	3.59	3.14
		38x235	5.44	4.94	4.22	5.05	4.59	3.84
		38x286	6.62	6.00	4.90	6.14	5.46	4.46
	No. 3	38x89	1.91	1.65	1.35	1.74	1.50	1.23
		38x140	2.72	2.36	1.92	2.48	2.15	1.75
		38x184	3.31	2.87	2.34	3.01	2.61	2.13
		38x235	4.05	3.51	2.86	3.69	3.19	2.61
		38x286	4.70	4.07	3.32	4.28	3.70	3.03
	Construction	38x89	1.99	1.81	1.58	1.85	1.68	1.47
	Standard	38x89	1.93	1.75	1.53	1.79	1.62	1.42
<b>Hemlock Fir-</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.12	1.93	1.68	1.97	1.79	1.56
		38x140	3.33	3.03	2.65	3.10	2.81	2.46
		38x184	4.38	3.98	3.48	4.07	3.70	3.23
		38x235	5.60	5.09	4.44	5.20	4.72	4.12
		38x286	6.81	6.19	5.41	6.32	5.75	5.02
	No. 1 and No. 2	38x89	2.06	1.87	1.63	1.91	1.74	1.52
		38x140	3.24	2.94	2.57	3.01	2.73	2.39
		38x184	4.26	3.87	3.38	3.95	3.59	3.14
		38x235	5.44	4.94	4.32	5.05	4.59	4.01
		38x286	6.62	6.01	5.25	5.14	5.58	4.68
	No. 3	38x89	1.99	1.81	1.58	1.85	1.68	1.47
		38x140	3.14	2.85	2.37	2.91	2.65	2.16
		38x184	4.09	3.54	2.89	3.72	3.22	2.63
		38x235	5.00	4.33	3.53	4.55	3.94	3.22
		38x286	5.80	5.02	4.10	5.28	4.57	3.73
	Construction	38x89	1.99	1.81	1.58	1.85	1.68	1.47
	Standard	38x89	1.93	1.75	1.53	1.79	1.62	1.42

Table A-6 (Cont'd)

Roof Rafters - (Design Roof Snow Loads 1.0 and 1.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	1.0 kPa			1.5 kPa		
			Rafter Spacing			Rafter Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	3.22	2.92	2.55	2.81	2.55	2.23
		38x140	5.06	4.60	4.02	4.42	4.02	3.51
		38x184	6.65	6.05	5.28	5.81	5.28	4.61
		38x235	8.50	7.72	6.74	7.42	6.74	5.89
		38x286	10.34	9.40	8.21	9.03	8.21	7.17
	No. 1 and No. 2	38x89	3.11	2.83	2.47	2.72	2.47	2.16
		38x140	4.90	4.45	3.89	4.28	3.89	3.40
		38x184	6.44	5.85	5.11	5.62	5.11	4.41
		38x235	8.22	7.47	6.38	7.18	6.52	5.39
		38x286	10.00	9.06	7.40	8.74	7.66	6.25
	No. 3	38x89	3.06	2.78	2.31	2.67	2.39	1.95
		38x140	4.67	4.04	3.30	3.95	3.42	2.79
		38x184	5.68	4.92	4.02	4.80	4.16	3.40
		38x235	6.95	6.02	4.91	5.87	5.08	4.15
		38x286	8.06	6.98	5.70	6.81	5.90	4.82
	Construction	38x89	3.06	2.78	2.43	2.67	2.43	2.12
	Standard	38x89	2.94	2.67	2.33	2.57	2.33	2.04
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	2.88	2.61	2.28	2.51	2.28	1.99
		38x140	4.53	4.11	3.59	3.95	3.59	3.14
		38x184	5.95	5.40	4.72	5.20	4.72	4.12
		38x235	7.60	6.90	6.03	6.64	6.03	5.11
		38x286	9.25	8.40	7.01	8.08	7.26	5.93
	No. 1 and No. 2	38x89	2.81	2.55	2.23	2.46	2.23	1.95
		38x140	4.42	4.02	3.44	3.86	3.51	2.91
		38x184	5.81	5.13	4.16	5.00	4.33	3.54
		38x235	7.27	6.27	5.12	6.12	5.30	4.33
		38x286	8.40	7.27	5.94	7.10	6.15	5.02
	No. 3	38x89	2.62	2.27	1.85	2.22	1.92	1.57
		38x140	3.74	3.24	2.65	3.16	2.74	2.24
		38x184	4.56	3.94	3.22	3.85	3.33	2.72
		38x235	5.57	4.82	3.94	4.71	4.08	3.33
		38x286	6.46	5.60	4.57	5.46	4.73	3.86
	Construction	38x89	2.74	2.49	2.18	2.40	2.18	1.90
	Standard	38x89	2.67	2.43	2.05	2.33	2.12	1.73

**Table A-7**  
Forming Part of Sentence 9.23.4.1.(1)

Roof Rafters - (Design Roof Snow Loads 2.0 and 2.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	2.0 kPa			2.5 kPa		
			Rafter Spacing			Rafter Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
<b>Douglas Fir-Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	38x89	2.71	2.46	2.15	2.51	2.28	1.99
		38x140	4.26	3.87	3.38	3.95	3.59	3.14
		38x184	5.60	5.09	4.44	5.20	4.72	4.12
		38x235	7.15	6.49	5.62	6.64	6.03	5.08
		38x286	8.70	7.90	6.52	8.08	7.23	5.90
	No. 1 and No. 2	38x89	2.59	2.36	2.06	2.41	2.19	1.86
		38x140	4.08	3.60	2.94	3.76	3.26	2.66
		38x184	5.06	4.38	3.58	4.58	3.96	3.24
		38x235	6.19	5.36	4.38	5.60	4.85	3.96
		38x286	7.18	6.22	5.08	6.50	5.63	4.59
	No. 3	38x89	1.98	1.71	1.40	1.79	1.55	1.26
		38x140	2.82	2.44	1.99	2.55	2.21	1.80
		38x184	3.43	2.97	2.43	3.10	2.69	2.20
		38x235	4.20	3.64	2.97	3.80	3.29	2.68
		38x286	4.87	4.22	3.44	4.41	3.82	3.12
	Construction	38x89	2.51	2.28	1.99	2.33	2.12	1.85
	Standard	38x89	2.43	2.16	1.76	2.25	1.95	1.59
<b>Hemlock Fir-</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	38x89	2.67	2.43	2.12	2.48	2.25	1.97
		38x140	4.20	3.82	3.33	3.90	3.54	3.10
		38x184	5.52	5.02	4.38	5.13	4.66	4.07
		38x235	7.05	6.41	5.54	6.55	5.95	5.01
		38x286	8.58	7.80	6.42	7.97	7.12	5.81
	No. 1 and No. 2	38x89	2.59	2.36	2.06	2.41	2.19	1.91
		38x140	4.08	3.71	3.08	3.79	3.42	2.79
		38x184	5.31	4.60	3.75	4.80	4.16	3.40
		38x235	6.49	5.62	4.59	5.87	5.08	4.15
		38x286	7.53	6.52	5.33	6.81	5.90	4.82
	No. 3	38x89	2.44	2.11	1.72	2.21	1.91	1.56
		38x140	3.48	3.01	2.46	3.15	2.73	2.23
		38x184	4.23	3.67	2.99	3.83	3.32	2.71
		38x235	5.18	4.48	3.66	4.68	4.06	3.31
		38x286	6.01	5.20	4.25	5.43	4.71	3.84
	Construction	38x89	2.51	2.28	1.99	2.33	2.12	1.85
	Standard	38x89	2.43	2.20	1.84	2.25	2.04	1.67



Table A-7 (Cont'd)

Roof Rafters - (Design Roof Snow Loads 2.0 and 2.5 kPa)								
Commercial Designation	Grade	Member Size,  mm	2.0 kPa			2.5 kPa		
			Rafter Spacing			Rafter Spacing		
			300 mm	400 mm	600 mm	300 mm	400 mm	600 mm
			m	m	m	m	m	m
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38x89	2.55	2.32	2.03	2.37	2.15	1.88
		38x140	4.02	3.65	3.19	3.73	3.39	2.96
		38x184	5.28	4.80	4.19	4.90	4.45	3.89
		38x235	6.74	6.13	5.35	6.26	5.69	4.97
		38x286	8.21	7.46	6.52	7.62	6.92	5.90
	No. 1 and No. 2	38x89	2.47	2.24	1.96	2.29	2.08	1.82
		38x140	3.89	3.53	3.08	3.61	3.28	2.86
		38x184	5.11	4.64	3.89	4.74	4.31	3.52
		38x235	6.52	5.82	4.75	6.06	5.27	4.30
		38x286	7.80	6.76	5.52	7.06	6.11	4.99
	No. 3	38x89	2.43	2.11	1.72	2.21	1.91	1.56
		38x140	3.48	3.01	2.46	3.15	2.73	2.23
		38x184	4.23	3.67	2.99	3.83	3.32	2.71
		38x235	5.18	4.48	3.66	4.68	4.06	3.31
		38x286	6.01	5.20	4.25	5.43	4.71	3.84
	Construction	38x89	2.43	2.20	1.93	2.25	2.05	1.79
	Standard	38x89	2.33	2.12	1.85	2.17	1.97	1.72
Northern Species (includes any Canadian soft wood covered by the NLGA Standard Grading Rules)	Select Structural	38x89	2.28	2.07	1.81	2.12	1.93	1.68
		38x140	3.59	3.26	2.85	3.33	3.03	2.65
		38x184	4.72	4.29	3.68	4.38	3.98	3.33
		38x235	6.03	5.48	4.51	5.60	4.99	4.08
		38x286	7.34	6.40	5.23	6.69	5.79	4.73
	No. 1 and No. 2	38x89	2.23	2.03	1.77	2.07	1.88	1.62
		38x140	3.51	3.14	2.56	3.26	2.84	2.32
		38x184	4.41	3.82	3.12	3.99	3.46	2.82
		38x235	5.40	4.67	3.82	4.88	4.23	3.45
		38x286	6.26	5.42	4.43	5.66	4.90	4.00
	No. 3	38x89	1.95	1.69	1.38	1.77	1.53	1.25
		38x140	2.79	2.42	1.97	2.52	2.19	1.78
		38x184	3.40	2.94	2.40	3.07	2.66	2.17
		38x235	4.15	3.60	2.94	3.76	3.25	2.66
		38x286	4.82	4.17	3.41	4.36	3.77	3.08
	Construction	38x89	2.18	1.98	1.73	2.02	1.84	1.60
	Standard	38x89	2.12	1.87	1.53	1.95	1.69	1.38

**Table A-8**  
Forming Part of Sentence 9.23.4.1.(1)

<b>Maximum Spans (m) for Built-up Floor Beams Supporting not more than One Floor in Houses</b>								
Commercial Designation	Grade	Supported Joist Length,	Size of Built-Up Beam, mm					
			3-38x184	4-38x184	3-38x235	4-38x235	3-38x286	4-38x286
		m	m	m	m	m	m	m
<b>Douglas Fir- Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	2.4	3.84	4.43	4.70	5.42	5.45	6.29
		3.0	3.43	3.97	4.20	4.85	4.87	5.63
		3.6	3.14	3.62	3.83	4.43	4.45	5.14
		4.2	2.90	3.35	3.55	4.10	3.95	4.76
		4.8	2.67	3.14	3.13	3.83	3.46	4.45
	No. 2	2.4	2.99	3.45	3.66	4.22	4.24	4.90
		3.0	2.67	3.09	3.27	3.78	3.79	4.38
		3.6	2.44	2.82	2.98	3.45	3.46	4.00
		4.2	2.26	2.61	2.76	3.19	3.21	3.70
		4.8	2.11	2.44	2.59	2.98	3.00	3.46
<b>Hemlock - Fir</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	2.4	3.78	4.37	4.62	5.34	5.37	6.20
		3.0	3.38	3.91	4.09	4.78	4.53	5.54
		3.6	2.91	3.57	3.41	4.36	3.78	5.03
		4.2	2.50	3.30	2.92	3.90	3.24	4.31
		4.8	2.19	2.91	2.56	4.41	2.83	3.78
	No. 2	2.4	3.14	3.62	3.83	4.43	4.45	5.14
		3.0	2.80	3.24	3.43	3.96	3.98	4.60
		3.6	2.56	2.96	3.13	3.61	3.63	4.19
		4.2	2.37	2.74	2.90	3.35	3.24	3.88
		4.8	2.19	2.56	2.56	3.13	2.834	3.63
<b>Spruce - Pine- Fir</b> (includes Spruce (all species except Coast Sitka Spruce), Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	2.4	3.84	4.43	4.70	5.42	5.45	6.29
		3.0	3.43	3.97	4.20	4.85	4.87	5.63
		3.6	3.14	3.62	3.79	4.43	4.19	5.14
		4.2	2.78	3.35	3.25	4.10	3.60	4.76
		4.8	2.43	3.14	2.84	3.79	3.15	4.19
	No. 2	2.4	3.25	3.75	3.97	4.59	4.61	5.32
		3.0	2.90	3.35	3.55	4.10	4.12	4.76
		3.6	2.65	3.06	3.24	3.74	3.76	4.34
		4.2	2.45	3.83	3.00	3.47	3.48	4.02
		4.8	2.30	2.65	2.81	3.24	3.15	3.76
<b>Northern Species</b> (includes any softwood covered by the NLGA Standard Grading Rules)	Select Structural	2.4	3.08	3.55	3.76	4.35	4.37	5.04
		3.0	2.75	3.18	3.37	3.89	3.91	4.51
		3.6	2.51	2.90	3.07	3.55	3.57	4.12
		4.2	2.33	2.69	2.85	3.29	3.24	3.81
		4.8	2.18	2.51	2.56	3.07	2.83	3.57
	No. 2	2.4	2.61	3.01	3.19	3.68	3.70	4.27
		3.0	2.33	2.69	2.85	3.29	3.31	3.82
		3.6	2.13	2.46	2.60	3.00	3.02	3.49
		4.2	1.97	2.27	2.41	2.78	2.80	3.23
		4.8	1.84	2.13	2.25	2.60	2.61	3.02

Table A-9  
Forming Part of Sentence 9.23.4.1.(1)

Maximum Spans (m) for Built-up Floor Beams Supporting not more than Two Floors in Houses								
Commercial Designation	Grade	Supported Joist Length,  m	Size of Built-Up Beam, mm					
			3-38x184	4-38x184	3-38x235	4-38x235	3-38x286	4-38x286
			m	m	m	m	m	m
<b>Douglas Fir- Larch</b> (includes Douglas Fir and Western Larch)	Select Structural	2.4	2.91	3.36	3.56	4.11	3.98	4.77
		3.0	2.46	3.01	2.88	3.68	3.19	4.25
		3.6	2.05	2.73	2.40	3.20	2.66	3.54
		4.2	1.76	2.84	2.06	2.74	2.28	3.04
		4.8	1.54	2.05	1.80	2.40	1.99	2.66
	No. 2	2.4	2.97	2.62	2.77	3.20	3.22	3.72
		3.0	2.03	2.34	2.48	2.86	2.88	3.32
		3.6	1.85	2.14	2.26	2.62	2.63	3.03
		4.2	1.71	1.98	2.06	2.42	2.28	2.81
		4.8	1.54	1.85	1.80	2.26	1.99	2.63
<b>Hemlock - Fir</b> (includes Western Hemlock and Amabilis Fir)	Select Structural	2.4	2.52	3.31	2.95	3.93	3.26	4.35
		3.0	2.01	2.68	2.36	3.14	2.61	3.48
		3.6	1.68	2.24	1.96	2.62	2.17	2.90
		4.2	1.44	1.92	1.68	2.25	1.86	2.48
		4.8	1.26	1.68	1.47	1.96	1.63	2.17
	No. 2	2.4	2.38	2.75	2.91	3.36	3.26	3.90
		3.0	2.01	2.46	2.36	3.00	2.61	3.48
		3.6	1.68	2.24	1.96	2.62	2.17	2.90
		4.2	1.44	1.92	1.68	2.25	1.86	2.48
		4.8	1.26	1.68	1.47	1.96	1.63	2.17
<b>Spruce - Pine- Fir</b> (includes Spruce (all species except Coast Sitka Spruce), Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	2.4	2.80	3.36	3.27	4.11	3.62	4.77
		3.0	2.24	2.98	2.62	3.49	2.90	3.86
		3.6	1.86	2.49	2.18	2.91	2.42	3.22
		4.2	1.60	2.13	1.87	2.49	2.07	2.76
		4.8	1.40	1.86	1.64	2.18	1.81	2.42
	No. 2	2.4	2.46	2.85	3.01	3.48	3.50	4.04
		3.0	2.20	2.55	2.62	3.11	2.90	3.61
		3.6	1.86	2.32	2.18	2.84	2.42	3.22
		4.2	1.60	2.13	1.87	2.49	2.07	2.76
		4.8	1.40	1.86	1.64	2.18	1.81	2.42
<b>Northern Species</b> (includes any softwood covered by the NLGA Standard Grading Rules)	Select Structural	2.4	2.34	2.70	2.86	3.30	3.26	3.83
		3.0	2.01	2.41	2.36	2.95	2.61	3.42
		3.6	1.68	2.20	1.96	2.62	2.17	2.90
		4.2	1.44	1.92	1.68	2.25	1.86	2.48
		4.8	1.26	1.68	1.47	1.96	1.63	2.17
	No. 2	2.4	1.98	2.28	2.42	2.79	2.81	3.24
		3.0	1.77	2.04	2.16	2.50	2.51	2.90
		3.6	1.61	1.86	1.96	2.28	2.17	2.65
		4.2	1.44	1.73	1.68	2.11	1.86	2.45
		4.8	1.26	1.61	1.47	1.96	1.63	2.17

**Table A-10**  
Forming Part of Article 9.23.13.14

Maximum Clear Spans (m) between End Supports for Fink Trusses										
Top Member Size, mm	Bottom Member Size, mm	Roof Slope	No. 1 Grade Lumber				No. 2 Grade Lumber			
			Design Roof Snow Load, kPa				Design Roof Snow Load, kPa			
			1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5
38x89	38x89	1 in 4.8	6.75	4.87	—	—	5.84	4.01	—	—
		1 in 4	9.57	8.12	6.01	4.54	8.02	7.13	5.18	3.78
		1 in 3	9.60	8.83	7.62	6.75	8.91	7.69	6.60	5.84
		1 in 2.4	9.80	9.04	7.79	6.93	9.11	7.87	6.78	6.01
	38x114	1 in 4.8	7.74	5.74	3.78	—	6.75	4.85	—	—
		1 in 4	9.27	8.53	7.06	5.48	8.58	7.36	6.14	4.67
		1 in 3	9.60	8.83	7.62	6.75	8.91	7.69	6.60	5.84
		1 in 2.4	9.80	9.04	7.79	6.93	9.11	7.87	6.78	6.01
	38x140	1 in 4.8	8.50	6.35	4.39	—	7.44	5.46	3.47	—
		1 in 4	9.27	8.53	7.28	5.89	8.58	7.36	6.29	5.08
		1 in 3	9.60	8.83	7.62	6.75	8.91	7.69	6.60	5.84
		1 in 2.4	9.80	9.04	7.79	6.93	9.11	7.87	6.78	6.01
38x114	38x89	1 in 4.8	7.97	5.91	3.96	—	6.95	5.02	—	—
		1 in 4	9.57	8.66	7.18	5.56	8.02	7.16	6.24	4.77
		1 in 3	0.54	9.75	8.81	7.97	8.96	8.20	7.31	6.57
		1 in 2.4	1.20	9.90	9.65	8.89	9.57	8.91	8.10	7.41
	38x114	1 in 4.8	9.27	6.98	4.95	3.30	8.12	6.04	4.08	—
		1 in 4	1.91	10.23	8.48	6.68	10.31	9.24	7.44	5.79
		1 in 3	2.19	10.64	9.14	8.66	10.74	9.24	8.48	7.49
		1 in 2.4	2.19	10.89	9.39	8.91	10.99	9.49	8.71	7.74
	38x140	1 in 4.8	0.23	7.79	5.63	4.08	9.01	6.78	4.77	—
		1 in 4	1.91	10.23	9.11	7.23	10.31	9.47	8.05	6.29
		1 in 3	2.19	10.64	9.14	8.66	10.74	9.47	8.48	7.49
		1 in 2.4	2.19	10.89	9.39	8.91	10.99	9.49	8.71	7.74
38x140	38x89	1 in 4.8	8.98	6.73	4.72	—	7.39	5.81	3.86	—
		1 in 4	9.57	8.66	7.62	6.35	8.02	7.16	6.24	5.48
		1 in 3	0.54	9.75	8.81	7.97	8.96	8.20	7.31	6.57
		1 in 2.4	1.20	10.49	9.65	8.89	9.57	8.91	8.10	7.41
	38x114	1 in 4.8	0.46	7.97	5.79	4.24	9.22	6.95	4.92	3.27
		1 in 4	2.19	11.12	9.62	7.64	10.33	9.24	8.02	6.68
		1 in 3	2.19	12.19	11.17	9.90	11.50	10.54	9.42	8.45
		1 in 2.4	2.19	12.19	11.48	10.18	12.19	11.45	9.98	9.44
	38x140	1 in 4.8	1.68	8.96	6.60	5.00	10.33	7.84	5.68	4.14
		1 in 4	2.19	12.19	10.43	8.33	12.19	10.82	9.22	7.31
		1 in 3	2.19	12.19	11.17	9.90	12.19	11.30	9.67	9.16
		1 in 2.4	2.19	12.19	11.48	10.18	12.19	11.60	9.98	9.44
Column 1	2	3	4	5	6	7	8	9	10	11



Table A—11  
Forming Part of Article 9.23.13.14

Maximum Clear Spans (m) between End Supports for Howe Trusses										
Top Member Size, mm	Bottom Member Size, mm	Roof Slope	No. 1 Grade Lumber				No. 2 Grade Lumber			
			Design Roof Snow Load, kPa				Design Roof Snow Load, kPa			
			1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5
38x89	38x89	1 in 4.8	9.44	7.31	5.48	4.24	8.30	6.45	4.77	3.63
		1 in 4	9.44	8.50	7.28	6.42	8.55	7.36	6.27	5.53
		1 in 3	9.57	8.83	7.59	6.73	8.89	7.67	6.57	5.84
		1 in 2.4	9.77	9.04	7.79	6.93	9.09	7.87	6.78	6.01
	38x114	1 in 4.8	9.62	8.15	6.17	4.82	8.30	7.11	5.41	4.19
		1 in 4	9.62	8.50	7.28	6.42	8.55	7.36	6.27	5.53
		1 in 3	9.62	8.83	7.59	6.73	8.89	7.67	6.57	5.84
		1 in 2.4	9.77	9.04	7.79	6.93	9.09	8.87	6.78	6.01
	38x140	1 in 4.8	9.62	8.25	7.03	5.63	8.30	7.11	6.04	4.92
		1 in 4	9.62	8.50	7.28	6.42	8.55	7.36	6.27	5.53
		1 in 3	9.62	8.83	7.59	6.73	8.89	7.67	6.57	5.84
		1 in 2.4	9.77	9.04	7.79	6.93	9.09	7.87	6.78	6.01
38x114	38x89	1 in 4.8	10.18	8.28	6.27	4.92	8.35	7.16	5.48	4.26
		1 in 4	11.20	9.85	8.45	7.34	9.27	8.07	6.83	5.89
		1 in 3	12.19	10.64	9.14	8.66	10.64	9.22	8.28	7.28
		1 in 2.4	12.19	10.89	9.37	8.89	10.97	9.47	8.71	7.72
	38x114	1 in 4.8	11.53	9.37	7.15	5.66	9.95	8.30	6.27	4.92
		1 in 4	11.88	10.21	9.37	8.28	10.28	9.44	8.07	7.11
		1 in 3	12.19	10.64	9.37	8.66	10.71	9.44	8.45	7.49
		1 in 2.4	12.19	10.89	9.37	8.89	10.97	9.47	8.71	7.72
	38x140	1 in 4.8	11.53	9.90	8.35	6.68	9.95	9.14	7.39	5.86
		1 in 4	11.88	10.21	9.37	8.28	10.28	9.44	8.07	7.11
		1 in 3	12.19	10.64	9.37	8.66	10.71	9.44	8.45	7.49
		1 in 2.4	12.19	10.89	9.37	8.89	10.97	9.47	8.71	7.72
38x140	38x89	1 in 4.8	10.18	8.73	6.90	5.46	8.35	7.16	5.96	4.74
		1 in 4	11.20	9.85	8.45	7.34	9.27	8.07	6.83	5.89
		1 in 3	12.19	11.48	10.10	8.96	10.64	9.52	8.28	7.28
		1 in 2.4	12.19	12.19	11.35	10.18	11.60	10.59	9.39	8.40
	38x114	1 in 4.8	12.19	10.31	7.89	6.29	10.74	9.16	6.95	5.51
		1 in 4	12.19	12.19	10.69	9.42	11.91	10.38	8.78	7.59
		1 in 3	12.19	12.19	11.17	9.90	12.19	11.27	9.67	9.16
		1 in 2.4	12.19	12.19	11.45	10.18	12.19	11.58	9.95	9.44
	38x140	1 in 4.8	12.19	12.09	9.34	7.51	12.16	10.41	8.30	6.62
		1 in 4	12.19	12.19	10.43	9.42	12.19	10.79	9.19	8.68
		1 in 3	12.19	12.19	11.17	9.90	12.19	11.27	9.67	9.16
		1 in 2.4	12.19	12.19	11.45	10.18	12.19	11.58	9.95	9.44
Column 1	2	3	4	5	6	7	8	9	10	11

**Part 10 Reserved**

**Part 11**  
**Renovation**

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Section 11.2	Building Systems
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## Part 11 Renovation

### Section 11.1 General

#### 11.1.1. Scope

11.1.1.1. The scope of this Part shall be as described in Section 2.1.

#### 11.1.1.2. Definitions. In this Part,

*Alternative measure* means a substitute for a requirement in another Part of the Code, or a substitute for a *compliance alternative* in this Part, that an applicant for a permit proposes and "A.M." has a corresponding meaning.

*Basic renovation* means *construction* to which less than 90 per cent of an entire *floor area* of an existing *building* is subjected and which does not adversely affect the *life safety systems* in the *building*, and where

- (a) a change in *major occupancy* does not require additional early warning or evacuation facilities,
- (b) the *occupant load* is not increased by more than 15 per cent, or
- (c) the *hazard index* of the new *major occupancy* is not greater than the *construction index* of the existing *building*.

*Building system* means a combination of elements or components that form a complete major division of *construction* in the design of a *building* or part of a *building*, including a structural or framing system, a waterproofing system, a drainage system, an exterior cladding system, a roofing system, a window system, a partition system, a corridor system, a stair system, a fire alarm and detection system, a sprinkler system or a heating, ventilation or *air conditioning* system, a foundation system, a standpipe and hose system, a flooring system, a *plumbing system*, or an electrical system.

*Compliance alternative* means a substitute for a requirement in another Part of the Code that is listed in this Part, and "C.A." has a corresponding meaning.

*Construction index* means a level on a scale of 1 to 8 determined in accordance with Table 11.4.1.A. designating the expected fire protection *performance level* of the type of *construction* of an existing *building*, and "C.I." has a corresponding meaning.

*Hazard index* means a level on a scale of 1 to 8 determined in accordance with Tables 11.4.1.B. to 11.4.1.M. designating the life safety hazard to occupants of the *building* based on

- (a) use and *occupancy*,
- (b) *occupant load*,
- (c) the use and function of floor spaces,
- (d) the difficulty of egress,
- (e) the fire load of contents, finishes and furnishings,
- (f) the configuration or compartmentation of floor spaces, and
- (g) the size of *building*,

and "H.I." has a corresponding meaning.

*Heritage building* means a *building* designated under the *Ontario Heritage Act*, or a *building* that is certified to be of significant architectural or historical value by a recognized, non-profit public organization whose primary object is the preservation of structures of architectural or historical significance and which certification is accepted by the *chief official*.

*Life safety system* means a series of built-in components or an installation in an existing *building* designed to achieve early warning and evacuation or fire containment and suppression or structural adequacy or a healthy environment.

*Match existing* means maintaining the existing *performance level* of all or part of an existing *building*, including its components and materials, by the reuse, relocation or extension of the same or similar compatible materials or components, to retain the existing character, structural uniqueness, heritage value, or aesthetic appearance of all or part of the *building*, including its materials and components.



*Performance level* means that level of safety under which all or part of an existing *building* functions with respect to its *life safety systems*.

*Public heritage building* means a *heritage building* where *occupancy* in whole or in part includes viewing thereof by the public provided that displays therein are limited to objects used or worn by the former occupants of the *building*.

#### 11.1.1.3. Alteration or Repair

(1) Except as provided in Sentence (2), where an existing *building* is subject to material alteration or repair, the Building Code is applicable only to those parts of the *building* that are subject to the material alteration or repair.

(2) Where other parts of the *building* are adversely affected by the alteration or repair, additional *construction* may be required in conformance with Section 11.3.

### Section 11.2 Building Systems

#### 11.2.1. Existing Building System

**11.2.1.1. Alteration of Building System.** Where an existing *building system* is altered, the *performance level* of the *building* after the alteration shall be at least equal to the *performance level* prior to the alteration.

**11.2.1.2. Extension of Building System.** Where an existing *building system* is extended, the extension shall comply with Subsection 11.2.2.

#### 11.2.1.3. Structural Adequacy

(1) Except as provided in Sentence (2), where after proposed *construction* in all or part of an existing *building*,

- (a) the *major occupancy* will change to a different *major occupancy*,
- (b) the *occupant load* will increase by more than 15 per cent, or
- (c) the *live load* will increase due to change in use within the same *major occupancy*,

the existing structural floor and roof framing systems and their supporting members after the *construction* shall be adequate to support the proposed *dead loads* and *live loads*.

(2) Where the existing structural floor or roof framing system and its supporting members are inadequate to support the proposed *dead loads* and *live loads*,

- (a) the portion of the floor affected by the proposed loads is restricted to the loading it will support and signs stating the restrictions are posted, or
- (b) remedial measures are taken to support the proposed loads.

(3) Except as provided in Subsection 11.2.4., where substantially all existing interior walls or ceilings or floor assemblies or roof assemblies are removed in an existing *building* and new interior walls, ceilings, floor assemblies are installed in the *building*, their structural and fire-resistant elements shall be constructed in compliance with the requirements of the other parts of the Code.

#### 11.2.2. New Building System

**11.2.2.1. Design and Construction.** Except as provided in Subsections 11.2.3., 11.2.4. and 11.3.2. and Sentence 11.2.1.3.(3), the design and *construction* of a new *building system* or an extension to an existing *building system* shall comply with the requirements of the other Parts of the Code.

#### 11.2.3. Compliance Alternatives

##### 11.2.3.1. Substitution

(1) A *compliance alternative* to a requirement contained in Part 3, 4, or 6, shown in Tables 11.2.3.A., 11.2.3.B., 11.2.3.C., 11.2.3.D/E. or 11.2.3.F., may be substituted for the requirement where the *chief official* is satisfied that compliance with the requirement is impracticable because,

- (a) of structural or *construction* difficulties, or
- (b) it is detrimental to the preservation of a *heritage building*.

(2) A *compliance alternative* to a requirement contained in Part 9 shown in Tables 11.2.3.C., 11.2.3.D/E. or

11.2.3.F., may be substituted for the requirement without satisfying the *chief official* that the requirement is impracticable.

#### 11.2.4. Alternative Measures

##### 11.2.4.1. Substitution

- (1) An *alternative measure* to,
  - (a) a requirement of Part 3, 4, 6 or 9 of the Code, or
  - (b) a *compliance alternative*,

may be substituted for the requirement or the *compliance alternative*, as the case may be, and where the *chief official* is satisfied that compliance with the requirement or the *compliance alternative*, as the case may be, is impracticable because

- (c) of structural or *construction* difficulties, or
- (d) it is detrimental to the preservation of a *heritage building*.

### Section 11.3 Performance Level

#### 11.3.1. General

**11.3.1.1. Performance Level.** The *performance level* of a *building* after *construction* shall not be less than the *performance level* of the *building* prior to *construction*.

##### 11.3.1.2. Compensating Construction

(1) Where, as a result of *construction*, the *performance level* of all or part of a *building* is reduced, *compensating construction* to restore the *performance level* of the *building* or part of the *building* shall be required in compliance with Tables 11.3.1.A., 11.3.1.B., 11.3.1.C. and 11.4.2.A.

(2) *Compensating construction* required under Sentence (1) applies to the part of the *building* being altered, and

- (a) shall include *fire separations*, with the required *fire-resistance ratings*, separating the part being altered from the *floor areas* immediately above and below and from the immediate adjacent areas, and
- (b) shall include *access to exits* and *exits* from the *building*, where the alteration adversely affects the *exit* system of the *building*.

#### 11.3.2. Match Existing

##### 11.3.2.1. Conditions

- (1) *Construction* may be carried out to *match existing* if,
  - (a) *basic renovation* is proposed,
  - (b) the *hazard index* of a new *major occupancy* is not greater than the *construction index* of the existing *building*, and
  - (c) there is no increase in *occupant load* greater than 15 per cent.

#### 11.3.3. Increase in Occupant Load

##### 11.3.3.1. Reduction in Performance Level

(1) Except as provided in Sentence (2), proposed *construction* that increases the *occupant load* of an existing *building* by more than 15 per cent reduces the *performance level* of the *building*.

(2) Sentence (1) does not apply in a Group C *occupancy* where the new total *occupant load* is,

- (a) 14 persons or less in a *boarding, lodging or rooming house*, except that where the *occupant load* is between 10 and 15 persons, an interconnected system of *smoke alarms* in corridors near stairways is required, or
- (b) 16 persons or less in a *building* containing residential *suites* which are *dwelling units*, except that where the *occupant load* is between 10 and 17 persons, an interconnected system of *smoke alarms* in corridors near stairways is required.

**11.3.3.2. Restoring Performance Level.** Where the *performance level* of an existing *building* is reduced under Sentence 11.3.3.1.(1), the *performance level* shall be restored by compliance with Table 11.3.1.B.

**11.3.3.3. Fire Separations.** Nothing contained in this Subsection relieves an applicant from complying with requirements in other Parts of the Code for *fire separations* except as provided in Subsections 11.2.3. and 11.2.4.

#### **11.3.4. Change in Major Occupancy**

##### **11.3.4.1. Reduction in Performance Level**

(1) Proposed *construction* which will result in the change of the *major occupancy* of all or part of an existing *building* to another *major occupancy* of a greater hazard reduces the *performance level* of the *building*.

(2) Where proposed *construction* will change a *major occupancy* of all or part of an existing *building* to another *major occupancy*, the *building* shall be classified as to its *construction* and *occupancy* as set out in Section 11.4.

(3) Where a *major occupancy* of all or part of an existing *building* is changed to another *major occupancy* and the *hazard index* of the new *major occupancy* is equal to or less than the *construction index* of the existing *building*, and where the early warning and evacuation systems requirements of other Parts of the Code for the new *major occupancy* exceed those of the existing systems, upgrading of those systems shall be required in conformance with the applicable requirements of Tables 11.3.1.A., 11.3.1.B. and 11.4.2.A.

(4) Except as provided in Sentence (5), where a *major occupancy* of all or part of an existing *building* is changed to another *major occupancy* and the *hazard index* of the new *major occupancy* is greater than the *construction index* of the existing *building*, upgrading of early warning and evacuation systems and additional upgrading shall be required in conformance with Tables 11.3.1.A., 11.3.1.B., 11.3.1.C. and 11.4.2.A. so that the *construction index* of the *building* is increased to at least equal the *hazard index* of the new *major occupancy* that the *building* is to support.

(5) Small or medium sized existing *buildings* as determined in Tables 11.4.1.B. to 11.4.1.M. facing multiple *streets* may be assigned a *hazard index* credit of 1, which may be subtracted from the *hazard index* of the new *major occupancy* to reduce the additional upgrading required by Table 11.3.1.C. provided

- (a) the *building* does not contain a Group B, Division 1; a Group C, or a Group F, Division 1 *occupancy*, and
- (b) fire fighting access complying with Articles 3.2.5.1., 3.2.5.2., 3.2.5.3., 3.2.5.4., 3.2.5.5. and 3.2.5.6. or Subsection 9.10.19., or an approved *alternative measure*, is provided from all *streets*.

(6) Where the *occupancy* of all or part of an existing *building*, not exceeding 6 *stories* in *building height* and constructed of *combustible construction*, is changed to a *residential occupancy* that would require the *building*, if it were a new *building*, to be constructed of *noncombustible construction*, such requirements for *noncombustible construction* are satisfied if the *building* is *sprinklered*.

#### **11.3.5. Portions of Extended Buildings**

**11.3.5.1.(1)** Where an existing *building* is extended, this Part applies to the *performance level* of the existing portion of the *building*.

(2) Except as required in Sentence (3), the extended portion of the *building* shall comply with all other Parts of the Code.

(3) Where the *occupant load* of the *building* after extension is increased by more than 15 per cent, the requirements of Subsection 11.3.3. shall apply to the *building* as extended.

### **Section 11.4 Construction and Occupancy**

#### **11.4.1. Classification of Existing Buildings**

##### **11.4.1.1. Classification**

(1) For the purposes of this Part, existing *buildings* shall be classified as to their *construction* and *occupancy* on the basis of *construction index* and *hazard index* as provided for in this Part, including Tables 11.4.1.A. to 11.4.1.M. and 11.3.1.A. to 11.3.1.C.

(2) The requirements of Articles 3.2.2.16. to 3.2.2.62. do not apply to this Part.

**11.4.2. Multiple Occupancies****11.4.2.1. Classification**

(1) Existing *buildings* of multiple *occupancy* shall be classified as to their *construction* and *occupancy* as provided for in Subsection 11.4.1.

(2) The classification of an existing *building* of multiple *occupancy* under Sentence (1) shall be applied according to Articles 3.1.3.2., 3.1.3.3., 3.1.3.4. and 3.1.3.5.

(3) The *major occupancies* in an existing *building* shall be separated from adjoining *major occupancies* by *fire separations* having *fire-resistance ratings* conforming to Tables 3.1.3.A. and 11.4.2.A.

**TABLE 11.2.3.A. — ASSEMBLY  
COMPLIANCE ALTERNATIVES**  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
A2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
A3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
A4	3.1.5.14.; 3.1.5.15.; 3.1.5.17.; 3.1.5.18.; 3.1.5.21.	Existing acceptable.
A5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: 1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies. 2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194. 3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207. 4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.
A6	3.1.7.6.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
Column 1	2	3



TABLE 11.2.3.A. — ASSEMBLY—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A7	3.1.8.5.(2)	(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,  (b) all existing functional and sound hollow metal or kalamein doors which carry existing 1½ h labels are acceptable in lieu of current 1½ h labels and may contain wired glass panels not exceeding 645 cm², at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and  (c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.
A8	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
A9	3.1.8.10.(1)	Existing 45 mm solid core wood doors acceptable.
A10	3.1.8.11.(1)	Existing functionally operable self-closing devices acceptable.
A11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
A12	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass at least 6 mm thick is securely fixed to a steel frame with steel stops. Operable transoms shall be fixed closed.
A13	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
A14	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
A15	3.1.13.10.	Existing acceptable.
A16	3.2.2.12.(1) (b) and (c)	Existing sprinkler systems need not comply.
Column 1	2	3

TABLE 11.2.3.A. — ASSEMBLY—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A17	3.2.3.	<p>Area of existing windows need not conform to Table 3.2.3.A.</p> <p>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies not closer than 300 mm from a window in such other <i>building</i>, where the “opposite” window is less than 2.4 m from the opposite new opening, and</p> <p>(b) except relocation of units, to be restricted to the same <i>fire compartment</i>, or</p> <p>(c) Where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
A18	3.2.4.	<p>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the “Fire Safety Plan” (as described in Subsection 2.8.2. of the Ontario Fire Code) for the building addresses the intent of Subsection 3.2.4. (i.e., “stage” system, electrical supervision, detection as required, Fire Department connection and emergency power supply), and</p> <p>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</p>
A19	3.2.5.4.(1) and (2)	Existing acceptable.
A20	3.2.5.5.; 3.2.5.6.; 3.2.5.7.	Sprinkler the <i>building</i> .
A21	3.2.5.8.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
Column 1	2	3

TABLE 11.2.3.A. — ASSEMBLY—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A22	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
A23	3.2.6. ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS	(See Appendix A under “ <i>Alternative Measures</i> ”.)
A24	3.2.9.	(a) Does not apply to <i>buildings</i> 6 storeys and less. (b) Does not apply to <i>sprinklered buildings</i> .
A25	3.3.1.5.	1 egress door is allowed where the <i>occupant load</i> is not greater than 100 persons, provided <i>floor area</i> is <i>sprinklered</i> and travel distance does not exceed 25 m.
A26	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
A27	3.3.1.9.(8)	An existing dead-end corridor is permitted where the <i>occupant load</i> is not greater than 20 persons, provided travel distance is not greater than 6 m plus corridor width to “ <i>exit choice</i> ” point.
A28	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
A29	3.3.1.12.	Existing doors may remain in a <i>heritage building</i> , existing or being restored, with no change in <i>major occupancy</i> .
A30	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
A31	3.3.2.12.	Does not apply to existing bowling alleys.
A32	3.3.5.5.(1); 3.3.5.8.(1) to (3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
A33	3.4.1.5.	Existing acceptable.
A34	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
A35	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and where there is no change in <i>major occupancy</i> .
Column 1	2	3

TABLE 11.2.3.A. — ASSEMBLY—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A36	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable.
A37	3.4.3.4.(1)	Need not comply where there is no increase in <i>occupant load</i> .
A38	3.4.3.6.	Existing acceptable.
A39	3.4.3.7.	Existing headroom clearance of not less than 1980 mm is acceptable.
A40	3.4.4.4.(7)	Existing washrooms opening directly into an <i>exit</i> stairwell shall be separated from the <i>exit</i> stairwell by a 45 min <i>closure</i> .
A41	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
A42	3.4.6.2.	Existing acceptable, if visually apparent.
A43	3.4.6.3.	Existing acceptable.
A44	3.4.6.4.(2) to (8)	Existing acceptable.
A45	3.4.6.5.(2), (4) and (5)	Existing acceptable.
A46	3.4.6.6.(1)	Existing acceptable.
A47	3.4.6.7.; 3.4.6.8.	Existing acceptable.
A48	3.4.6.10.(1), (2) and (4)	Existing acceptable.
A49	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> .
A50	3.4.6.15.(1) and (2)	Existing functionally operable panic hardware acceptable.
A51	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
A52	3.5.2.1.(3)	Existing <i>fire separation</i> acceptable.
A53	3.5.2.4.	Existing acceptable where explosion-resistant <i>construction</i> or venting is provided.
A54	3.5.2.8.	Existing acceptable.
A55	3.5.2.9.(1)	2 h <i>fire separation</i> acceptable.
A56	3.5.3.1.(1) to (6)	45 min <i>fire separation</i> acceptable.
A57	3.5.3.3.(1) to (5) and (8)	Existing acceptable.
A58	3.5.3.3.(9)	1 h if <i>sprinklered</i> .
A59	3.5.3.3.(10)	Existing acceptable.
Column 1	2	3



TABLE 11.2.3.A. — ASSEMBLY—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A60	3.5.3.4.	Existing acceptable.
A61	3.5.4.	Existing acceptable.
A62	3.5.5.	Existing acceptable.
A63	3.6.1.	The requirements under this Subsection do not apply.
A64	3.6.2.	The requirements under this Subsection do not apply.
A65	3.6.4.2.	Existing plumbing facilities are acceptable except where the <i>major occupancy</i> is changed or where the <i>occupant load</i> is increased.  Where <i>occupant load</i> is increased, facilities to be added to accommodate the increase.  Exception to where there is a change in <i>major occupancy</i> :  <i>Public heritage buildings</i> up to 3 storeys, limited in size to 250 m <sup>2</sup> in <i>building area</i> , limited in <i>occupant load</i> to + or – 50 persons.
Column 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A66	4.1.9.	The requirements under this Subsection do not apply.
Column 1	2	3

**TABLE 11.2.3.B. — INSTITUTIONAL  
COMPLIANCE ALTERNATIVES**  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B1	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
B2	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable.
B3	3.1.5.13.; 3.1.5.14.; 3.1.5.15.; 3.1.5.17.; 3.1.5.18.; 3.1.5.21.	Existing acceptable.
B4	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
B5	3.1.7.6.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
B6	3.1.8.5.(2)	<p>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</p> <p>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1½ h labels are acceptable in lieu of current 1½ h labels and may contain wired glass panels not exceeding 645 cm², at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</p> <p>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</p>
B7	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
B8	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
Column 1	2	3

TABLE 11.2.3.B. — INSTITUTIONAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B9	3.1.8.11.(1)	Existing functionally operable self-closing devices acceptable, including devices with "pause" hardware.
B10	3.1.8.12.(1) and (2)	Between patient or inmate rooms, and corridors, existing "pause" type self-closing devices may be used as hold-open devices where functionally operable.
B11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
B12	3.1.8.14.(1) and (2)	Except in zone or <i>exit fire separations</i> not required to be greater than 1 h, existing wired glass installations may be acceptable, provided they are set in steel or metal-clad frames.
B13	3.1.8.14.(3)	Existing glass block acceptable.
B14	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
B15	3.1.9.5.(1) and (2)	Existing openings in existing ceiling membranes to remain.  Existing openings may be moved to another location in the same ceiling provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the ceiling assembly.
B16	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
B17	3.1.14.; 3.1.15.	Existing roof assemblies and roof coverings acceptable.
B18	3.2.3.	Area of existing windows need not conform to Table 3.2.3.A. (a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies no closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2.4 m from the opposite new opening, and (b) except relocation of units, to be restricted to the same <i>fire compartment</i> , or
Column 1	2	3

TABLE 11.2.3.B. — INSTITUTIONAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		<p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2) or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
B19	3.2.4.	<p>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the building addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</p> <p>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</p>
B20	3.2.5.1.; 3.2.5.2.; 3.2.5.3.	<p>Existing access to an existing <i>occupancy</i> acceptable.</p> <p>Where the existing <i>building</i> is changed to a "B" <i>occupancy</i>, existing access may be acceptable.</p>
B21	3.2.5.4.(1)	Existing acceptable, except where a change in <i>occupancy</i> occurs to a "B1" or "B2" <i>occupancy</i> .
B22	3.2.5.4.(2)	Existing acceptable.
B23	3.2.5.5.; 3.2.5.6.; 3.2.5.7.	<p>Existing access route to existing <i>occupancy</i> is acceptable if the <i>building</i> is <i>sprinklered</i>.</p> <p>Where existing <i>building</i> is changed to a "B" <i>occupancy</i>, access route shall be provided.</p>
B24	3.2.5.8.; 3.2.5.18.	Does not apply except where a change in <i>occupancy</i> occurs to a "B1" or "B2" <i>occupancy</i> , where occupants are not normally evacuated from the <i>building</i> .
Column 1	2	3



**TABLE 11.2.3.B. — INSTITUTIONAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B25	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified <i>designer</i> .
B26	3.2.6. ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS.	(See Appendix A under “ <i>Alternative Measures</i> ”.)
B27	3.2.9.	Does not apply except where a change in <i>occupancy</i> occurs to a “B1” or “B2” <i>occupancy</i> , where occupants are not normally evacuated from the <i>building</i> .
B28	3.3.1.5.(1) (c); Table 3.3.1.A.	Column 2 to read: 100 m <sup>2</sup> for “B1” and “B2” (sleeping rooms) and 200 m <sup>2</sup> for “B2” (other rooms).
B29	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable, except as provided in Sentence 3.3.3.3.(2).
B30	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
B31	3.3.1.12.	Existing doors acceptable.
B32	3.3.1.15.	Existing acceptable.
B33	3.3.1.16.	Existing non-conforming capacities of <i>access to exits</i> are acceptable, provided that the excessive capacity is no greater than 15%, and (a) corridor <i>separations</i> are rated to Code plus early warning system provided, or (b) there are sprinklers, plus <i>smoke alarms</i> in <i>suites</i> .
B34	3.3.1.17.	Existing acceptable.
B35	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
B36	3.3.3.3.(1)	Existing dead end corridors acceptable with 30 min <i>fire separation</i> of corridor plus sprinklering of <i>floor area</i> , provided the <i>occupant load</i> is not greater than 10 persons and travel distance not greater than 6 m plus corridor width to “ <i>exit choice</i> ” point.
B37	3.3.3.4.; 3.3.3.6.(3)	45 min <i>fire separation</i> acceptable.
Column 1	2	3

**TABLE 11.2.3.B. — INSTITUTIONAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B38	3.3.5.5.(1); 3.3.5.8.(1) and (3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
B39	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
B40	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area is sprinklered</i> and provided <i>fire separations</i> comply with Part 3 of the Code.
B41	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable.
B42	3.4.3.6.	Existing acceptable.
B43	3.4.3.7.	Existing headroom clearance of not less than 1980 mm is acceptable.
B44	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
B45	3.4.6.2.	Existing acceptable, if visually apparent.
B46	3.4.6.3.(1)	Existing acceptable with a rise of no greater than 3.7 m.
B47	3.4.6.3.(2)	Existing acceptable provided there is no change in <i>occupancy</i> to a "B2".
B48	3.4.6.4.(2) to (9)	Existing acceptable.
B49	3.4.6.5.(2) to (5)	Existing acceptable.
B50	3.4.6.6.(1)	Existing acceptable.
B51	3.4.6.7.	Existing acceptable.
B52	3.4.6.8.	Existing acceptable where there is no change in <i>major occupancy</i> or increase in <i>occupant load</i> greater than 15%.
B53	3.4.6.10.(1), (2) and (4)	Existing acceptable.
B54	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> .
B55	3.4.6.15.(1) and (2)	Existing functionally operable panic hardware acceptable.
B56	3.4.6.16.(1) (c)	Existing access to existing <i>occupancy</i> is acceptable.  Where the existing <i>building</i> is changed to a "B" <i>occupancy</i> , existing access may be acceptable.
Column 1	2	3

TABLE 11.2.3.B. — INSTITUTIONAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B57	3.4.7.2.	Combustible fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ). Where serving non-ambulatory persons, minimum width shall be 1100 mm.
B58	3.5.2.1.(3)	45 min <i>fire separation</i> acceptable.
B59	3.5.2.8.	Existing acceptable.
B60	3.5.2.9.(1)	2 h <i>fire separation</i> acceptable.
B61	3.5.3.1.(1) to (6)	45 min <i>fire separation</i> acceptable.
B62	3.5.3.3.(1), (3), (4) (a), (5) and (10)	Existing acceptable.
B63	3.5.3.3.(2)(a)	45 min <i>fire separation</i> acceptable.
B64	3.5.4.	Existing acceptable, except where a change in <i>occupancy</i> occurs to a "B1" or "B2" <i>occupancy</i> .
B65	3.5.5.	Existing acceptable, except where <i>building</i> is classified under Subsection 3.2.6.
B66	3.6.1.3.(1)	Existing acceptable.
B67	3.6.2.1.	Existing acceptable.
B68	3.6.4.2.	Existing plumbing facilities are acceptable except where the <i>major occupancy</i> is changed or where the <i>occupant load</i> is increased. Where <i>occupant load</i> is increased, facilities to be added to accommodate the increase.
Column 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B69	4.1.9.	The requirements under this Subsection do not apply.
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL  
COMPLIANCE ALTERNATIVES**  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
C2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
C3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
C4	3.1.5.13.; 3.1.5.14.; 3.1.5.15.; 3.1.5.17.; 3.1.5.18.; 3.1.5.21.	Existing acceptable.
C5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
C6	3.1.7.6.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
C7	3.1.8.1.(2); 3.1.8.6.(1) and (2)	Existing functional <i>closures</i> are acceptable and may be relocated within the same existing <i>fire separation</i> .
C8	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1½ h labels are acceptable in lieu of current 1½ h labels and may contain wired glass panels not exceeding 645 cm², at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
Column 1	2	3



TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C9	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	<i>Fire dampers or fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
C10	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable. For existing <i>closures</i> , ratings of 20 min will not be required where the entire <i>floor area</i> is <i>sprinklered</i> .
C11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
C12	3.1.8.14.	Existing transoms or sidelights located in <i>fire separations</i> not required to be greater than 1 h may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
C13	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
C14	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
C15	3.2.2.12.(1) (b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
C16	3.2.3.	Area of existing windows need not conform to Table 3.2.3.A. (a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies no closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2.4 m from the opposite new opening, and (b) except relocation of units, to be restricted to the same <i>fire compartment</i> , or
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		<p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such existing openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
C17	3.2.4.	<p>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the building addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</p> <p>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</p>
C18	3.2.4.21.	Such <i>smoke alarms</i> may be battery operated.
C19	3.2.5.1.; 3.2.5.2.; 3.2.5.3.	Existing acceptable.
C20	3.2.5.4.(1)	Existing access acceptable.
C21	3.2.5.4.(2)	Existing acceptable.
C22	3.2.5.5.; 3.2.5.6.; 3.2.5.7.	<p>(a) For <i>buildings</i> 6 storeys and less, existing access to existing <i>occupancy</i> is acceptable, and</p> <p>(b) where existing <i>building</i> is changed to a "C" <i>occupancy</i>, an access route shall be provided, or the existing access is acceptable provided the building is <i>sprinklered</i>.</p>
C23	3.2.5.8.	Existing water supply and hydrants are acceptable in <i>buildings</i> up to 6 storeys in <i>building height</i> .
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C24	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
C25	3.2.6. ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS	(See Appendix A under “ <i>Alternative Measures</i> ”.)
C26	3.2.9.	Does not apply to <i>buildings</i> 4 storeys and less.  For existing <i>buildings</i> over 4 storeys in <i>building height</i> , existing standpipe and hose systems water supply is acceptable provided it can deliver a minimum flow rate of 265 L/min for 30 min at 345 kPa (gauge) at the two highest and most remote hose valves, with not less than 132 L/min from each of the two simultaneously.
C27	3.3.1.4.(1)	30 min is acceptable to separate <i>public corridor</i> or <i>exits</i> in <i>buildings</i> not exceeding 6 storeys in <i>building height</i> , except that 45 min is required for <i>exits</i> in <i>buildings</i> exceeding 3 storeys in <i>building height</i> .
C28	3.3.1.5.(1) (c); Table 3.3.1.A.	In Column 2, maximum area of room or <i>suite</i> to be unlimited.
C29	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
C30	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
C31	3.3.1.12.	Existing doors acceptable.
C32	3.3.1.15.	Existing curved or spiral stairs acceptable.
C33	3.3.1.16.	Existing non-conforming capacities of <i>access to exits</i> are acceptable, provided that the excessive capacity is no greater than 15%,  (a) <i>corridor fire separations</i> are to be rated to Code plus early warning system provided, or  (b) there are sprinklers, plus <i>smoke alarms</i> in <i>suites</i> .
C34	3.3.1.17.	Does not apply to <i>heritage buildings</i> .
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C35	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
C36	3.3.4.2.(1)	For <i>buildings</i> exceeding 6 storeys in building height, 30 min is acceptable between <i>suites</i> and between <i>suites</i> and <i>public corridors</i> where <i>smoke detectors</i> are installed in corridors, except 1 h is required in <i>exits</i> .
C37	3.3.4.2.(2) (a) (b) (c)	30 min <i>fire separation</i> acceptable. 45 min <i>fire separation</i> acceptable. 1½ h <i>fire separation</i> acceptable.
C38	3.3.4.4.(5) and (6)	For <i>buildings</i> 6 storeys and less, doorway from <i>dwelling unit</i> will be permitted to open directly into <i>exit</i> stairway or interior corridor served by a single <i>exit</i> if a fire alarm system complying with Subsection 3.2.4. is installed and the <i>dwelling unit</i> has a second and separate means of egress.
C39	3.3.5.5.(1) and 3.3.5.8.(3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
C40	3.4.1.4.	The following types of <i>exits</i> may also be used for <i>buildings</i> not over 6 storeys in building height: (a) connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade. (b) areas of refuge where fire service rescue is possible and that comply with Measure L of Sentences (4) to (10), (18) and (20) (a), (b) and (d) in the Supplement to the NBC 1990.
C41	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
C42	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 3 of the Code.
C43	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable.
C44	3.4.3.6.	Existing acceptable.
C45	3.4.3.7.	Existing headroom clearance of not less than 1980 mm is acceptable.
C46	3.4.4.1.(1)	Except for <i>exits</i> , no rating required where <i>floor areas</i> are <i>sprinklered</i> .
Column 1	2	3



**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C47	3.4.4.1.	<i>Fire separations of exits permitted in buildings:</i> – 30 min, up to 3 storeys in building height; – 45 min, up to 6 storeys in building height; – 1 h, over 6 storeys in building height.
C48	3.4.4.4.(7)	Existing washrooms opening directly into an exit stairwell shall be separated from the exit stairwell by a 45 min closure.
C49	3.4.5.1.(2) and (7)	Existing illuminated legible exit signs are acceptable.
C50	3.4.6.1.	Existing acceptable.
C51	3.4.6.2.	Existing acceptable, if visually apparent.
C52	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
C53	3.4.6.3.(3) and (4)	Existing acceptable.
C54	3.4.6.4.(2) and (8)	Existing acceptable.
C55	3.4.6.5.	Existing acceptable.
C56	3.4.6.6.(1)	Existing acceptable.
C57	3.4.6.7.; 3.4.6.8.	Existing acceptable.
C58	3.4.6.9.(2) to (7)	Existing acceptable.
C59	3.4.6.10.(1), (2) and (4)	Existing acceptable.
C60	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> .
C61	3.4.6.15.(1) to (3)	Existing functionally operable panic hardware acceptable.
C62	3.4.7.2.	<i>Combustible fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a heritage building).</i>
C63	3.5.2.1.(3)	45 min fire separation acceptable.
C64	3.5.2.4.	Existing acceptable where explosion-resistant construction or venting is provided.
C65	3.5.2.8.	Existing acceptable.
C66	3.5.2.9.(1)	2 h fire separation acceptable.
C67	3.5.3.1.(1) to (6)	45 min fire separation acceptable up to 6 storeys.
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C68	3.5.3.3.(2)	Where 2 h <i>fire separation</i> is required, 1 h is acceptable.  Except for linen discharge rooms where 1 h <i>fire separation</i> is required, 45 min is acceptable.
C69	3.5.3.3.(4) and (5)	Existing sizes acceptable.
C70	3.5.3.3.(9)	Where 2 h <i>fire separation</i> is required, 1 h is acceptable.
C71	3.5.4.2.	Ceiling <i>fire separation</i> need not be fire-resistance rated where sprinklering, subject to C.A. C24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
C72	3.5.4.3.(1)	Existing to meet <i>flame-spread rating</i> of 25 or to be <i>sprinklered</i> .
C73	3.5.4.4.; 3.5.4.5.; 3.5.4.6.	Existing access acceptable.
C74	3.5.5.	Existing acceptable except where <i>building</i> is classified under Subsection 3.2.6.
C75	3.6.1.1.; 3.6.1.2.	The requirements under these Articles do not apply.
C76	3.6.2.1.	(a) Where windows are not used as <i>means of egress</i> and where they do not conflict with ventilation requirements, the minimum glass areas as shown in Table 9.7.1.A. may be reduced by 50%, or  (b) an existing room converted to an interior room, created by an addition, shall not require a window, provided there is an opening in a dividing wall to an adjoining room, where the adjoining room has a minimum of 5% window area of the combined floor areas, and provided the required ventilation for the combined rooms is maintained.
C77	3.6.4.2.	Existing plumbing facilities are acceptable except where the <i>major occupancy</i> is changed or where the <i>occupant load</i> is increased.  Where <i>occupant load</i> is increased, facilities to be added to accommodate the increase.  Exception to where there is a change in <i>major occupancy</i> : <i>Public heritage buildings</i> up to 3 storeys, limited in size to 250 m <sup>2</sup> in <i>building area</i> , limited in <i>occupant load</i> to + or – 50 persons.
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C78	4.1.9.	The requirements under this Subsection do not apply.
Column 1	2	3

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C79	6.2.3.2.; 6.2.3.4.; 6.2.3.5.; 6.2.3.10.	Existing acceptable.
C80	6.2.3.11.(3)	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may serve, or be altered to serve more than one <i>dwelling unit</i> , provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided <i>smoke detectors</i> are installed in the supply and return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detectors.
C81	6.2.3.13.	Existing openings, grilles and diffusers acceptable.
C82	6.2.4.2.(1); 6.2.4.3.(1) to (3)	Existing acceptable.
C83	6.2.4.2.(10)	Where the duct system is being altered, lesser amounts and extent of insulation will be permitted.
C84	6.2.9.2.	Existing acceptable.
C85	6.3.1.	Existing acceptable, provided products of combustion are safely vented.
Column 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C86	9.3.0.1.; 9.3.0.2.	Sound used materials; systems, components of systems and equipment may be accepted for reuse without requirements for testing.
C87	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage,
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		(b) where the grade or species is unknown, the minimum grade shall apply for span table use, and (c) lumber has not been subjected to termite infestation.
C88	9.5	The requirements under this Section do not apply.
C89	9.6.3.1.	Doors may be lesser heights to suit ceiling heights.
C90	9.6.3.2.	Existing acceptable.
C91	9.6.4.	Existing acceptable.
C92	9.6.5.2.; 9.6.5.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
C93	9.7.1.2.	(a) Where windows are not used as a <i>means of egress</i> and where they do not conflict with ventilation requirements, the minimum glass areas as shown in Table 9.7.1.A. may be reduced by 50%, and (b) an existing room converted to an interior room created by an addition shall not require a window, provided there is an opening in a dividing wall to an adjoining room where the adjoining room has a minimum of 5% window area of the combined <i>floor areas</i> , and provided the required ventilation for the combined room is maintained.
C94	9.7.1.6.	Existing acceptable.
C95	9.7.5.1.	Existing acceptable, if marked to indicate their existence and position.
C96	9.8	Replacement or extension of existing stair systems shall be exempt from the provisions of this Section, except that they shall have: (a) a minimum width between wall faces of 700 mm, and (b) a minimum clear height over tread nosing of 1800 mm.
C97	9.8.5.2.	Existing curved or spiral stairs are acceptable.
C98	9.8.5.3.	Where a stair complies with Subsection 9.8.3., an extension to a stair may contain two sets of winders provided that they are separated by at least 3 treads or a landing.
C99	9.8.6.	Existing ramps acceptable, where practical.
Column 1	2	3



TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C100	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief official</i> .
C101	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief official</i> .
C102	9.8.9.5.(2)	Existing acceptable.
C103	9.9.2.2.	The following types of <i>exits</i> may also be used: (a) connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade, (b) areas of refuge approved by the <i>chief official</i> , where fire service rescue is possible, or (c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.13.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
C104	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire-resistance rating</i> .
C105	9.9.2.8.	Existing acceptable.
C106	9.9.3.2.	(a) In a <i>building</i> containing not more than four <i>dwelling units</i> , the width of every <i>exit</i> facility may be as the existing, but not less than 800 mm, or (b) in a <i>building</i> containing more than four <i>dwelling units</i> , the width of every <i>exit</i> facility may be as the existing, but not less than 900 mm.
C107	9.9.3.3.	(a) In a <i>building</i> containing not more than four <i>dwelling units</i> , the minimum width of a <i>public corridor</i> may be 800 mm, or (b) in a <i>building</i> containing more than four <i>dwelling units</i> , the minimum width of a <i>public corridor</i> may be 900 mm.
C108	9.9.3.4.	Existing headroom clearance of not less than 1950 mm is acceptable.
C109	9.9.4.2.	In a <i>building</i> that contains not more than four <i>dwelling units</i> , one <i>exit</i> need not be separated from the remainder of the <i>building</i> at the <i>first storey</i> where there are one or more other <i>exits</i> complying with C.A. C110.
C110	9.9.4.2.(1) and (2)	30 min <i>fire separation</i> acceptable.
C111	9.9.5.4.	Existing acceptable.
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C112	9.9.5.8.	Existing <i>fire separation</i> of not less than 1 h is acceptable.
C113	9.9.6.2.	Existing acceptable.
C114	9.9.6.3.	Existing headroom clearance of not less than 1950 mm is acceptable, with existing door heights to be acceptable.
C115	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights conform to C.A.'s C106 and C108.
C116	9.9.6.5.	Existing door swings acceptable. Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief official</i> .
C117	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, they shall not extend beyond the face of the first riser.
C118	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
C119	9.9.7.3.(1) (a)	Maximum area of existing room or <i>suite</i> does not apply.
C120	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
C121	9.9.8.5.	In a <i>building</i> containing not more than four <i>dwelling units</i> , existing glazed solid wood doors to lobby may remain in lieu of new 20 minute doors, provided the <i>fire separations</i> for the floor above or below are provided as per C.A. C129, and a second <i>means of egress</i> from the <i>dwelling units</i> complies with the Code requirements.
C122	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief official</i> .
C123	9.10.1.1.	Assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
C124	9.10.1.10.	Existing installations acceptable subject to C.A.'s C23, C24 and C26.
C125	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: 1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194. 3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207. 4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.
C126	9.10.5.1.	Existing openings in existing wall or ceiling membranes to remain. Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not accumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
C127	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
C128	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief official</i> .
C129	9.10.8.1.; 9.10.8.3.; 9.10.8.7.	Existing 30 min rating acceptable.
C130	9.10.9.7.; 9.10.9.9.	Existing acceptable.
C131	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering, subject to C.A. C24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
C132	9.10.9.11.(1)	30 min <i>fire separation</i> acceptable.
C133	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>mercantile occupancy</i> or <i>medium hazard industrial occupancy</i> , with a 1 h <i>fire separation</i> .
C134	9.10.9.14.(1) and (3); 9.10.9.15.(1)	30 min <i>fire separation</i> acceptable.
C135	9.10.10.3.	45 min <i>fire separation</i> acceptable.
C136	9.10.13.1.	Existing functional <i>closures</i> are acceptable subject to C.A. C8.
C137	9.10.13.2.(1)	In a <i>building</i> containing not more than four <i>dwelling units</i> , existing glazed solid wood doors to corridors may remain in lieu of new 20 min doors.
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C138	9.10.13.3.	Existing acceptable provided that wood door frames are secured with hinge screws going through frame into the stud.
C139	9.10.13.5.	Existing wired glass acceptable. Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass at least 6 mm thick is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
C140	9.10.13.6.	Existing steel door frames acceptable.
C141	9.10.13.7.	Existing glass block acceptable.
C142	9.10.13.8.	Existing sizes acceptable.
C143	9.10.13.9.	Existing operable latches acceptable.
C144	9.10.13.10.(1)	Existing functionally operable self-closing devices acceptable.
C145	9.10.13.11.	Existing operable self-releasing electromagnetic and fusible link hold-open devices acceptable.
C146	9.10.13.12.	Existing swings acceptable.
C147	9.10.13.13.(1)	In a <i>building</i> containing not more than four <i>suites</i> , where the existing heating or <i>air conditioning</i> system serves, or is altered to serve more than one <i>suite</i> , <i>fire dampers</i> are not required in the ducts penetrating required <i>fire separations</i> , provided <i>smoke alarms</i> are installed in each <i>suite</i> and provided <i>smoke detectors</i> are installed in the supply and return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detectors.
C148	9.10.13.14.; 9.10.5.1.	In a <i>building</i> containing not more than four <i>suites</i> , where the existing heating or <i>air conditioning</i> system serves, or is altered to serve more than one <i>suite</i> , <i>fire stop flaps</i> are not required in the pierced ceiling membrane provided <i>smoke alarms</i> are installed in each <i>suite</i> and provided <i>smoke detectors</i> are installed in the supply and return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detectors.
Column 1	2	3



TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C149	9.10.14.1.	<p>Area of existing windows need not conform to Table 9.10.14.A.</p> <p>(a) existing <i>windows</i> in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies no closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2.4 m from the opposite new opening, and</p> <p>(b) except relocation of units, to be restricted to the same <i>fire compartment</i>, or</p> <p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 9.10.14. for the amount of openings facing the yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
C150	9.10.14.7.; 9.10.14.8.	<p>Where an addition to an existing residential <i>building</i> has its <i>exposing building face</i> further distant from the line than the existing <i>exposing building face</i> and the <i>limiting distance</i> is at least 1.2 m, the total area of allowable <i>unprotected openings</i> may be determined under Article 9.10.14.7. for the combined new and existing <i>exposing building faces</i>, and</p> <p>(a) where the existing <i>exposing building face</i> has no <i>unprotected openings</i>, or the existing <i>unprotected openings</i> are to be filled in, the total allowable area of <i>unprotected openings</i> may be installed in the new <i>exposing building face</i>, or</p> <p>(b) where the existing <i>unprotected openings</i> are to remain, their area shall be deducted from the total allowable area of <i>unprotected openings</i>, and the balance may be installed in the new <i>exposing building face</i>, and</p> <p>(c) Article 9.10.14.8. applies only to the new <i>exposing building face</i>.</p>
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C151	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
C152	9.10.17.	(a) Subject to approval by the <i>chief official</i> , existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
C153	9.10.19.	Existing access acceptable.
C154	9.10.18.3.	<i>Smoke alarms</i> may be battery operated.
C155	9.18.2.	Existing access acceptable.
C156	9.18.3.	Existing vents and ventilation acceptable.
C157	9.19	Existing acceptable.
C158	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
C159	9.20.3.	Archaic mortars may be used to match existing jointing.
C160	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
C161	9.20.12.1.	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
C162	9.21	Existing acceptable, provided the products of combustion are safely vented, and provided no fire hazard is created.
C163	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces, provided no fire hazard is created. Article 9.22.1.4. need not comply.
C164	9.23	Existing acceptable.
C165	9.24	Existing acceptable.
C166	9.25	Where the framing systems are being altered, lesser amounts and extent of insulation and vapour barrier will be permitted.
Column 1	2	3

TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		A vapour barrier may consist of paint or other coating with specified perm rating such as two coats of leafing aluminum pigmented paint. Existing acceptable for Sentences 9.25.2.7.(2) to (4). Existing previously occupied log houses that are dismantled and reconstructed are exempt from Article 9.25.2.8.
C167	9.26	Existing acceptable, except when removing and replacing shingles, comply with the eave protection requirements of Subsection 9.26.5.
C168	9.27	Existing acceptable.
C169	9.28	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
C170	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
C171	9.33.1.1.	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may serve, or be altered to serve more than one <i>dwelling unit</i> , provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided <i>smoke detectors</i> are installed in the supply and return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detectors.
C172	9.33.1.2.	Sound, used or antique <i>appliances</i> are acceptable, provided that: (a) visual examination shows no excessive weakening by corrosion or other damage, (b) no structural parts are missing, (c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and (d) loading and ash removal door latches and hinges hold the door closed.
C173	9.34.4.1.	Existing meter mounting devices need not be relocated to these requirements during renovations.
C174	9.34.4.3.	Existing overhead and underground supply need not be relocated to these requirements during renovation.
Column 1	2	3

**TABLE 11.2.3.C. — RESIDENTIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
Forming Part of Article 11.2.3.1.

<b>NUMBER</b>	<b>PART 9 REQUIREMENTS</b>	<b>PART 11 COMPLIANCE ALTERNATIVE</b>
C175	9.34.4.4.; 9.34.4.5.	Existing acceptable.
C176	9.37	Sound used materials shall be acceptable for reuse, subject to the following limitations: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and (b) logs have not been subjected to termite infestation.
Column 1	2	3



TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
DE2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
DE3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
DE4	3.1.5.14.; 3.1.5.15.; 3.1.5.17.; 3.1.5.18.; 3.1.4.21.	Existing acceptable.
DE5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"><li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li><li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li><li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li><li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li></ol>
DE6	3.1.7.6.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
DE7	3.1.8.1.(2); 3.1.8.6.	Existing functional <i>closures</i> are acceptable and may be relocated within the same existing <i>fire separation</i> .
DE8	3.1.8.5.(2)	<ol style="list-style-type: none"><li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min.</li><li>(b) all existing functional and sound hollow doors which carry existing 1½ h labels are acceptable in lieu of current 1½ h labels and may contain wired glass panels not exceeding 645 cm², at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li><li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li></ol>
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE9	3.1.8.7.; 3.1.8.9.	<i>Fire dampers or fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
DE10	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
DE11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
DE12	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
DE13	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
DE14	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
DE15	3.2.2.12.(1)(b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
DE16	3.2.3.	<p>Area of existing windows need not conform to Table 3.2.3.A.</p> <p>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies no closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2.4 m from the opposite new opening, and</p> <p>(b) except relocation of units, to be restricted to the same <i>fire compartment</i>, or</p> <p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p>
Column 1	2	3

**TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		(i) such existing openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or (ii) the <i>building</i> is <i>sprinklered</i> .
DE17	3.2.4.1.(1)(d)	(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the building addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
DE18	3.2.5.1.; 3.2.5.2.; 3.2.5.3.	Existing acceptable.
DE19	3.2.5.4.	Existing access acceptable.
DE20	3.2.5.5.; 3.2.5.6.; 3.2.5.7.	Sprinkler the <i>building</i> .
DE21	3.2.5.8.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
DE22	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
DE23	3.2.6. ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS	(See Appendix A under "Alternative Measures".)
DE24	3.2.9.	Does not apply to <i>buildings</i> 6 storeys and less. Does not apply to <i>sprinklered buildings</i> .
DE25	3.3.1.5.(1)(c); Table 3.3.1.A.	In Column 2, maximum area of room or <i>suite</i> to be unlimited.
DE26	3.3.1.9.(1)	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE27	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
DE28	3.3.1.12.	Existing doors acceptable.
DE29	3.3.1.15.	Existing curved or spiral stairs acceptable.
DE30	3.3.1.16.	Existing non-conforming capacities of <i>access to exits</i> are acceptable, provided that: (a) the increase in <i>occupant load</i> is not greater than 15% , (b) the corridor <i>fire separations</i> are rated to Code, and (c) early warning systems are provided, or (d) there are sprinklers, plus <i>smoke alarms</i> in <i>suites</i> .
DE31	3.3.1.17.	Does not apply to <i>heritage buildings</i> .
DE32	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
DE33	3.2.3.17.	Need not comply for "E" <i>occupancy</i> .
DE34	3.3.5.5.; 3.3.5.8.(3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
DE35	3.4.1.4.	The following types of <i>exits</i> may also be used for <i>buildings</i> not over 6 <i>storeys</i> in <i>building height</i> : Connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade. Areas of refuge where fire service rescue is possible and that comply with Measure L of Sentences (4) to (10), (18) and 20 (a), (b) and (d) in the Supplement to the NBC 1990.
DE36	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
DE37	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> .
DE38	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable.
DE39	3.4.3.6.	Existing acceptable.
DE40	3.4.3.7.	Existing headroom clearance of not less than 1980 mm is acceptable.
Column 1	2	3



TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE41	3.4.4.1.	<i>Fire separations of exits permitted in buildings:</i> – 30 min, up to 3 storeys in building height; – 45 min, up to 6 storeys in building height; – 1 h, over 6 storeys in building height.
DE42	3.4.4.4.(7)	Existing washrooms opening directly into exit stairwell shall be separated from exit stairwell by a 45 min closure.
DE43	3.4.5.1.(2) and (7)	Existing illuminated legible exit signs are acceptable.
DE44	3.4.6.1.	Existing acceptable.
DE45	3.4.6.2.	Existing acceptable, if visually apparent.
DE46	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
DE47	3.4.6.4.(3) and (4)	Existing acceptable.
DE48	3.4.6.4.(2) to (8)	Existing acceptable.
DE49	3.4.6.5.(1) to (5)	Existing acceptable.
DE50	3.4.6.6.(1)	Existing acceptable.
DE51	3.4.6.7.; 3.4.6.8.	Existing acceptable.
DE52	3.4.6.9.(2) to (6)	Existing acceptable.
DE53	3.4.6.10.(1), (2) and (4)	Existing acceptable.
DE54	3.4.6.11.	Existing acceptable in public heritage buildings.
DE55	3.4.6.12.; 3.4.6.13.	Existing acceptable.
DE56	3.4.6.15.	Existing functionally operable panic hardware acceptable.
DE57	3.4.7.2.	Combustible fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a heritage building.)
DE58	3.5.2.1.(3)	45 min fire separation acceptable.
DE59	3.5.2.4.	Existing acceptable where explosion-resistant construction or venting is provided.
DE60	3.5.2.8.	Existing acceptable.
DE61	3.5.2.9.(1)	2 h fire separation acceptable.
DE62	3.5.3.1.(1) to (6)	45 min fire separation acceptable up to 6 storeys.
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE63	3.5.3.3.	Where 2 h <i>fire separation</i> is required, 1 h is acceptable. Where 1 h <i>fire separation</i> is required, 45 min is acceptable. Existing need not comply with Sentence 3.5.3.3.(5).
DE64	3.5.4.2.	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering, subject to C.A. DE24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
DE65	3.5.4.3.(1)	Existing to meet <i>flame-spread rating</i> of 25 or to be <i>sprinklered</i> .
DE66	3.5.4.4.; 3.5.4.5.; 3.5.4.6.	Existing access acceptable.
DE67	3.5.5.	Existing acceptable except where <i>building</i> is classified under Subsection 3.2.6.
DE68	3.6.4.2.	Existing plumbing facilities are acceptable except where the <i>major occupancy</i> is changed or where the <i>occupant load</i> is increased. Where <i>occupant load</i> is increased, facilities to be added to accommodate the increase. Exception to where there is a change in <i>major occupancy</i> : <i>Public heritage buildings</i> up to 3 storeys, limited in size to 250 m <sup>2</sup> in <i>building area</i> , limited in <i>occupant load</i> to + or - 50 persons.
Column 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE69	4.1.9.	The requirements under this Subsection do not apply.
Column 1	2	3

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE70	6.2.3.2.; 6.2.3.4.; 6.2.3.5.; 6.2.3.10.	Existing acceptable.
DE71	6.2.3.13.	Existing openings, grilles and diffusers acceptable, subject to approval of <i>chief official</i> .
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE72	6.2.4.2.(1); 6.2.4.3.(1) to (3)	Existing acceptable.
DE73	6.2.4.2.(10)	Where the duct system is being altered, lesser amounts and extent of insulation will be permitted.
DE74	6.2.9.2.	Existing acceptable.
Column 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE75	9.3.0.1.; 9.3.0.2.	Sound used materials; systems and components of systems, and equipment may be accepted for reuse without requirements for testing.
DE76	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, (b) where the grade or species is unknown, the minimum grade shall apply for span table use, and (c) lumber has not been subjected to termite infestation.
DE77	9.6.3.2.	Existing acceptable.
DE78	9.6.4.	Existing acceptable.
DE79	9.6.5.2.; 9.6.5.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
DE80	9.7.1.6.	Existing acceptable.
DE81	9.7.5.	Existing acceptable.
DE82	9.8	Replacement or extension of existing stair systems shall be exempt from the provisions of this Section, except that they shall have: (a) a minimum width between wall faces of 700 mm. and (b) a minimum clear height over tread nosing of 1800 mm.
DE83	9.8.2.2.	Existing acceptable.
DE84	9.8.5.2.	Existing curved or spiral stairs acceptable.
DE85	9.8.6.	Existing ramps acceptable, where practical.
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE86	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief official</i> .
DE87	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief official</i> .
DE88	9.9.1.1.	Existing acceptable.
DE89	9.9.2.2.	The following types of <i>exits</i> may also be used: (a) connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade, (b) areas of refuge, approved by the <i>chief official</i> , where fire service rescue is possible, or (c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.13.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
DE90	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire-resistance rating</i> .
DE91	9.9.2.8.	Existing acceptable.
DE92	9.9.3.2.	Existing width of <i>exits</i> acceptable.
DE93	9.9.3.3.	Existing width of <i>public corridors</i> of not less than 965 mm is acceptable.
DE94	9.9.3.4.	Existing headroom clearance of not less than 1950 mm is acceptable.
DE95	9.9.4.2.	30 min <i>fire separation</i> acceptable.
DE96	9.9.5.4.; 9.9.5.5.	Existing acceptable.
DE97	9.9.5.8.	Existing <i>fire separation</i> of not less than 1 h is acceptable.
DE98	9.9.6.2.	Existing acceptable.
DE99	9.9.6.3.	Existing headroom clearance of not less than 1950 mm is acceptable, with existing door heights to be acceptable.
DE100	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights comply with C.A.'s DE93 and DE94.
DE101	9.9.6.5.	Existing door swings are acceptable. Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief official</i> .
Column 1	2	3



TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE102	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, they shall not extend beyond the face of the first riser.
DE103	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
DE104	9.9.7.3.	Maximum area of existing room or <i>suite</i> to be unlimited.
DE105	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
DE106	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief official</i> .
DE107	9.10.1.1.	Assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
DE108	9.10.1.10.	Existing installations acceptable subject to C.A.'s DE22 and DE24.
DE109	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: 1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies. 2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194. 3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207. 4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.
DE110	9.10.5.1.	Existing openings in existing wall or ceiling membranes to remain. Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
DE111	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of the member sizes listed in Part 3.
DE112	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief official</i> .
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE113	9.10.8.1.	Existing 30 min rating acceptable.
DE114	9.10.8.2.	Existing sprinkler systems complying with C.A. DE24 and 3.2.2.12.(1) are acceptable.
DE115	9.10.8.3.	Existing acceptable, subject to approval of the <i>chief official</i> .
DE116	9.10.8.7.	30 min rating acceptable.
DE117	9.10.9.7.; 9.10.9.9.	Existing acceptable.
DE118	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
DE119	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>mercantile occupancy</i> with a 1 h <i>fire separation</i> .
DE120	9.10.9.13.	30 min <i>fire separation</i> acceptable.
DE121	9.10.9.15.(1)	30 min <i>fire separation</i> acceptable.
DE122	9.10.9.15.(3)	Need not comply for <i>mercantile occupancy</i> .
DE123	9.10.10.3.(1)	45 min <i>fire separation</i> acceptable.
DE124	9.10.12.1.	Need not comply for <i>mercantile occupancy</i> .
DE125	9.10.13.1.	Existing functional <i>closures</i> are acceptable subject to C.A. DE8.
DE126	9.10.13.2.	Existing acceptable.
DE127	9.10.13.3.	Existing acceptable, provided that wood door frames are secured with hinge screws going through frame into the stud.
DE128	9.10.13.5.	Existing acceptable.  Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
DE129	9.10.13.6.	Existing steel door frames acceptable.
DE130	9.10.13.7.	Existing glass block acceptable.
DE131	9.10.13.8.	Existing sizes acceptable.
DE132	9.10.13.9.	Existing operable latches acceptable.
DE133	9.10.13.10.(1)	Existing functionally operable self-closing device acceptable.
Column 1	2	3

TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE134	9.10.13.10.(2)	Existing functionally operable self-closing devices acceptable in "E" occupancy.
DE135	9.10.13.11.	Existing operable self-releasing electromagnetic and fusible link hold-open devices acceptable.
DE136	9.10.13.12.	Existing swings acceptable.
DE137	9.10.14.1.; 9.10.14.2.	<p>Area of existing windows need not conform to Table 9.10.14.A.</p> <p>(a) existing <i>windows</i> in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies no closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2.4 m from the opposite new opening, and</p> <p>(b) except relocation of units, to be restricted to the same <i>fire compartment</i>, or</p> <p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 9.10.14. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
DE138	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
DE139	9.10.17.	<p>(a) Subject to approval by the <i>chief official</i>, existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</p> <p>(b) extension of an existing system must ensure continuity and compatibility.</p>
DE140	9.10.19.	Existing access acceptable.
DE141	9.18.2.	Existing access acceptable.
Column 1	2	3

**TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE142	9.18.3.	Existing vents and ventilation acceptable.
DE143	9.19	Existing acceptable.
DE144	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
DE145	9.20.3.	Archaic mortars may be used to match existing jointing.
DE146	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
DE147	9.20.12.1	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
DE148	9.21	Existing acceptable, provided the products of combustion are safely vented and provided no fire hazard is created.
DE149	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces, provided no fire hazard is created. Existing need not comply with Article 9.22.1.4.
DE150	9.23	Existing acceptable.
DE151	9.24	Existing acceptable.
DE152	9.25.2.7.(2), (3) and (4)	Existing acceptable.
DE153	9.26	Existing acceptable, except when removing and replacing shingles, comply with eave protection requirements in Subsection 9.26.5.
DE154	9.27	Existing acceptable.
DE155	9.28	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
DE156	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
DE157	9.33.1.2.	Sound, used or antique <i>appliances</i> are acceptable, provided that: (a) visual examination shows no excessive weakening by corrosion or other damage.
Column 1	2	3



TABLE 11.2.3.D/E. — BUSINESS/MERCANTILE—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		(b) no structural parts are missing. (c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and (d) loading and ash removal door latches and hinges hold the door closed.
DE158	9.34.4.1.; 9.34.4.3.	Existing meter mounting devices and overhead and underground supply need not be relocated to these requirements during renovations.
DE159	9.34.4.4.; 9.34.4.5.	Existing acceptable.
DE160	9.37	Sound used materials shall be acceptable for reuse, subject to the following limitations: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and (b) logs have not be subjected to termite infestation.
Column 1	2	3

**TABLE 11.2.3.F. — INDUSTRIAL  
COMPLIANCE ALTERNATIVES**  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
F2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
F3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable for "F2" and "F3" <i>occupancies</i> . To match existing, materials may be added from on or off site.
F4	3.1.5.14.; 3.1.5.15.; 3.1.5.17.; 3.1.5.18.; 3.1.5.21.	Existing acceptable.
F5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
F6	3.1.7.6.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
F7	3.1.8.1.(2); 3.1.8.6.	Existing functional <i>closures</i> are acceptable and may be relocated within the same <i>fire separation</i> .
F8	3.1.8.5.(2)	<p>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min.</p> <p>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1½ h labels are acceptable in lieu of current 1½ h labels and may contain wired glass panels not exceeding 645 cm², at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</p>
Column 1	2	3

TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.
F9	3.1.8.7.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
F10	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
F11	3.1.8.11.(1)	Existing functionally operable devices acceptable for "F2" and "F3" <i>occupancies</i> .
F12	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
F13	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
F14	3.1.8.15.; 3.1.5.16.; 3.1.8.17.	Existing acceptable.
F15	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
F16	3.2.2.12.(1) (b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
F17	3.2.3.	Existing need not comply with Article 3.2.3.17. for "F2" <i>occupancy</i> . Area of existing windows need not conform to Table 3.2.3.A. (a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies no closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2.4 m from the opposite new opening, and (b) except relocation of units, to be restricted to the same <i>fire compartment</i> , or
Column 1	2	3

**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
		<p>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be materially altered or reinstalled provided:</p> <p>(i) such existing openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</p> <p>(ii) the <i>building</i> is <i>sprinklered</i>.</p>
F18	3.2.3.17.	Need not comply for "F2" <i>occupancy</i> .
F19	3.2.4.	<p>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the building addresses the intent of 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</p> <p>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</p>
F20	3.2.5.1.; 3.2.5.2.; 3.2.5.3.	Existing acceptable.
F21	3.2.5.4.	Existing access acceptable.
F22	3.2.5.5.; 3.2.5.6.; 3.2.5.7.	Sprinkler the <i>building</i> .
F23	3.2.5.8.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
F24	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
F25	3.2.6. ADDITIONAL REQUIREMENTS FOR HIGH BUILDINGS.	(See Appendix A under "Alternative Measures".)
F26	3.2.9.	<p>May not apply to <i>buildings</i> 6 storeys and less of "F2" and "F3" <i>occupancies</i>.</p> <p>Does not apply to <i>sprinklered buildings</i>.</p>
Column 1	2	3



**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F27	3.3.1.4.(1)	30 min is acceptable to separate <i>public corridors</i> or <i>exits</i> in <i>buildings</i> not exceeding 6 storeys in <i>building height</i> , except that 45 min is required for <i>exits</i> in <i>buildings</i> exceeding 3 storeys in <i>building height</i> . Except for <i>exits</i> , no rating required where <i>floor areas</i> are <i>sprinklered</i> .
F28	3.3.1.5.(1) (c); Table 3.3.1.A.	For "F2" and "F3" <i>occupancies</i> in Column 2, maximum area of room or <i>suite</i> to be unlimited.
F29	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
F30	3.3.1.9.(13) and (14)	Need not comply where connected balcony or area of refuge is provided complying with C.A. F36.
F30	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
F31	3.3.1.12.	Existing doors acceptable.
F32	3.3.1.15.	Existing curved or spiral staircase acceptable.
F33	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
F34	3.3.5.5.(2), (3), (5) and (7)	Existing acceptable.
F35	3.3.5.7.; 3.3.5.8.	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
F36	3.4.1.4.	For "F2" and "F3" <i>occupancies</i> , the following types of <i>exits</i> may also be used for <i>buildings</i> not over 6 storeys in <i>building height</i> : (a) connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade, (b) areas of refuge where fire service rescue is possible and that comply with Measure L in Sentences (4) to (10) and (20) (a), (b) and (d) in the Supplement to the NBC 1990.
F37	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
F38	3.4.2.5.(1)	For "F2" and "F3" <i>occupancies</i> , existing travel distance acceptable where the <i>floor area</i> is <i>sprinklered</i> .
Column 1	2	3

TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F39	3.4.3.1.(2)	For "F2" & "F3" <i>occupancies</i> , existing widths of <i>exits</i> acceptable.
F40	3.4.3.6.	Existing acceptable.
F41	3.4.3.7.	Existing headroom clearance of not less than 1980 mm is acceptable.
F42	3.4.4.1.	<i>Fire separations</i> of <i>exits</i> permitted in <i>buildings</i> : – 30 min, up to 3 <i>storeys</i> in <i>building height</i> ; – 45 min, up to 6 <i>storeys</i> in <i>building height</i> ; – 1 h, over 6 <i>storeys</i> in <i>building height</i> .
F43	3.4.4.4.(7)	Existing washrooms opening directly into <i>exit</i> stairwell shall be separated from <i>exit</i> stairwell by 45 min <i>closure</i> .
F44	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
F45	3.4.6.1.	Existing acceptable.
F46	3.4.6.2.	Existing acceptable, if visually apparent.
F47	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
F48	3.4.6.3.(3) and (4)	Existing acceptable.
F49	3.4.6.4.(2) to (8)	Existing acceptable.
F50	3.4.6.5.(1) to (5)	Existing acceptable.
F51	3.4.6.6.(1)	Existing acceptable.
F52	3.4.6.7.; 3.4.6.8.	Existing acceptable.
F53	3.4.6.9.(2) to (6)	Existing acceptable.
F54	3.4.6.10.(1), (2) and (4)	Existing acceptable.
F55	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> .
F56	3.4.6.12.; 3.4.6.13.	Existing acceptable.
F57	3.4.6.15.	Existing functionally operable panic hardware acceptable.
F58	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
F59	3.5.2.1.(3)	45 min <i>fire separation</i> acceptable.
Column 1	2	3

TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F60	3.5.2.4.	Existing acceptable where explosion-resistant <i>construction</i> or venting is provided.
F61	3.5.2.8.	Existing acceptable.
F62	3.5.2.9.(1)	2 h <i>fire separation</i> acceptable.
F63	3.5.3.1.(1) to (6)	45 min <i>fire separation</i> acceptable up to 6 storeys.
F64	3.5.3.3.	Where 2 h <i>fire separation</i> is required, 1 h is acceptable. Where 1 h <i>fire separation</i> is required, 45 min is acceptable. Existing need not comply with Sentences 3.5.3.3.(4) and (5).
F65	3.5.4.2.	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering, subject to C.A. F24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
F66	3.5.4.3.(1)	Existing to meet <i>flame-spread rating</i> of 25 or to be <i>sprinklered</i> .
F67	3.5.4.4.; 3.5.4.5.; 3.5.4.6.	Existing access acceptable.
F68	3.5.5.	Existing acceptable, except where <i>building</i> classified under Subsection 3.2.6. and except where existing elevators are "open" type.
F69	3.6.4.2.	Existing plumbing facilities are acceptable except where the <i>major occupancy</i> is changed or where the <i>occupant load</i> is increased. Where <i>occupant load</i> is increased, facilities to be added to accommodate the increase. Exception to where there is a change in <i>major occupancy</i> : <i>Public heritage buildings</i> up to 3 storeys, limited in size to 250 m <sup>2</sup> in <i>building area</i> , limited in <i>occupant load</i> to + or - 50 persons.
Column 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F70	4.1.9.	The requirements under this Subsection do not apply.
Column 1	2	3

**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F71	6.2.2.3.(1), (3) and (4)	<i>Storage garages</i> with a total capacity of less than 20 motor vehicles need not have mechanical ventilating systems if the downward slope of the floor to the outside door is 1 in 120 and the garage floor is above outside ground level.
F72	6.2.3.2.; 6.2.3.4.; 6.2.3.5.; 6.2.3.10.	Existing acceptable for "F2" and "F3" occupancies.
F73	6.2.3.13.	Existing openings, grilles and diffusers acceptable.
F74	6.2.4.2.(1); 6.2.4.3.(1) to (3)	Existing acceptable.
F75	6.2.4.3.(10)	Where the duct system is being altered, lesser amount and extent of insulation will be permitted.
F76	6.2.9.2.	Existing acceptable for "F2" and "F3" occupancies.
Column 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F77	9.3.0.1.; 9.3.0.2.	Sound used materials; systems and components of systems, and equipment may be accepted for reuse without requirements for testing.
F78	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, (b) where the grade or species is unknown, the minimum grade shall apply for span table use, and (c) lumber has not been subjected to termite infestation.
F79	9.6.3.2.	Existing acceptable.
F80	9.6.4.	Existing acceptable.
F81	9.6.5.2.; 9.6.5.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
F82	9.7.1.6.	Existing acceptable.
F83	9.7.5.	Existing barriers acceptable.
Column 1	2	3



TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F84	9.8	Replacement or extension of existing stair systems shall be exempt from the provisions of these Subsections, except that they shall have: (a) a minimum width between wall faces of 700 mm, and (b) a minimum clear height over tread nosing of 1800 mm.
F85	9.8.5.2.	Existing curved or spiral stairs acceptable.
F86	9.8.6.	Existing ramps acceptable, where practical.
F87	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief official</i> .
F88	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief official</i> .
F89	9.8.9.5.(2)	Existing acceptable.
F90	9.9.1.1.	Existing acceptable.
F91	9.9.2.2.	The following types of <i>exits</i> may also be used: (a) connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade, (b) areas of refuge approved by the <i>chief official</i> where fire service rescue is possible, or (c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.13.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
F92	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire-resistance rating</i> .
F93	9.9.2.8.	Existing acceptable.
F94	9.9.3.2.	Existing width of <i>exits</i> acceptable.
F95	9.9.3.3.	Existing width of <i>public corridors</i> of not less than 965 mm is acceptable.
F96	9.9.3.4.	Existing headroom clearance of not less than 1950 mm is acceptable.
F97	9.9.4.2.(1)	30 min <i>fire separation</i> acceptable.
F98	9.9.5.4.; 9.9.6.2.	Existing acceptable.
F99	9.9.5.8.	Existing acceptable provided minimum 1 h <i>fire separation</i> is provided.
Column 1	2	3

**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F100	9.9.6.3.	Existing headroom clearance of not less than 1950 mm is acceptable, with existing door heights to be acceptable.
F101	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights comply with C.A.'s F95 and F96.
F102	9.9.6.5.	Existing door swings acceptable. Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief official</i> .
F103	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, such doors shall not extend beyond the face of the first riser.
F104	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
F105	9.9.7.3.	Maximum area of existing room or <i>suite</i> does not apply.
F106	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
F107	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief official</i> .
F108	9.10.1.1.	Assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
F109	9.10.1.10.	Existing acceptable subject to C.A.'s F24 and F26.
F110	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
Column 1	2	3

TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F111	9.10.5.1.	Existing openings in existing wall or ceiling membranes to remain. Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
F112	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of the member sizes listed in Part 3.
F113	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief official</i> .
F114	9.10.8.1.	Existing 30 min rating acceptable.
F115	9.10.8.2.	Existing sprinkler systems complying with C.A. F24 and 3.2.2.12.(1) are acceptable.
F116	9.10.8.3.	Existing acceptable, subject to approval of <i>chief official</i> .
F117	9.10.8.7.	30 min rating acceptable.
F118	9.10.9.7.; 9.10.9.9.	Existing acceptable.
F119	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
F120	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>medium hazard industrial occupancy</i> with a 1 h <i>fire separation</i> .
F121	9.10.9.13.; 9.10.9.15.(1)	30 min <i>fire separation</i> acceptable.
F122	9.10.10.3.(1)	45 min <i>fire separation</i> acceptable.
F123	9.10.12.1.	Need not comply for <i>medium hazard industrial occupancy</i> .
F124	9.10.13.1.	Existing functional <i>closures</i> are acceptable subject to C.A. F8.
F125	9.10.13.2.	Existing acceptable.
F126	9.10.13.3.	Existing acceptable, provided that wood door frames are secured with hinge screws going through frame into the stud.
Column 1	2	3

**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F127	9.10.13.5.	Existing wired glass acceptable.  Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
F128	9.10.13.6.	Existing steel door frames acceptable.
F129	9.10.13.7.	Existing glass block acceptable.
F130	9.10.13.8.	Existing sizes acceptable.
F131	9.10.13.9.	Existing operable latches acceptable.
F132	9.10.13.10.(1)	Existing operable self-closing devices acceptable.
F133	9.10.13.11.	Existing operable self-releasing electromagnetic and fusible link hold-open devices acceptable.
F134	9.10.13.12.	Existing swings acceptable.
F135	9.10.14.1.; 9.10.14.2.	Area of existing windows need not conform to Table 9.10.14.A. (a) existing <i>windows</i> in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies not closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2.4 m from the opposite new opening, and (b) except relocation of units, to be restricted to the same <i>fire compartment</i> , or (c) where a <i>building</i> does not satisfy the requirements of Subsection 9.10.14. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i> , such existing openings are allowed to be materially altered or reinstalled provided: (i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or (ii) the <i>building</i> is <i>sprinklered</i> .
F136	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
Column 1	2	3



**TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)**  
**COMPLIANCE ALTERNATIVES**  
 Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F137	9.10.17.	(a) Subject to approval by the <i>chief official</i> , existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
F138	9.10.19.	Existing access acceptable.
F139	9.18.2.	Existing access acceptable.
F140	9.18.3.	Existing vents and ventilation acceptable.
F141	9.19	Existing acceptable.
F142	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
F143	9.20.3.	Archaic mortars may be used to match existing jointing.
F144	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
F145	9.20.12.1.	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
F146	9.21	Existing acceptable, provided the products of combustion are safely vented and provided no fire hazard is created.
F147	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces provided no fire hazard is created.  Existing need not comply with Article 9.22.1.4.
F148	9.23	Existing acceptable.
F149	9.24	Existing acceptable.
F150	9.25.2.7.(2) to (4)	Existing acceptable.
F151	9.26	Existing acceptable.
F152	9.27	Existing acceptable.
Column 1	2	3

TABLE 11.2.3.F. — INDUSTRIAL—(Cont'd)  
COMPLIANCE ALTERNATIVES  
Forming Part of Article 11.2.3.1.

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F153	9.28	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
F154	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
F155	9.33.1.2.	Sound, used or antique <i>appliances</i> are acceptable, provided that: (a) visual examination shows no excessive weakening by corrosion or other damage, (b) no structural parts are missing, (c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and (d) loading and ash removal door latches and hinges hold the door closed.
F156	9.34.4.1.; 9.34.4.3.	Existing meter mounting devices and overhead and underground supply need not be relocated to these requirements during renovations.
F157	9.34.4.4.; 9.34.4.5.	Existing acceptable.
F158	9.37	Sound used materials shall be acceptable for reuse, subject to the following limitations: (a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and (b) logs have not been subjected to termite infestation.
Column 1	2	3

TABLE 11.3.1.A.  
Forming Part of Sections 11.3 and 11.4

Renovation Activity		METHOD OF COMPLIANCE (1)				
		Match Existing	Evaluate and Upgrade Deficiencies For E.W./ EVAC. (2)	Additional Upgrade	C.A.'s (3)	A.M.'s (4)
#1	Basic Renovation	0	—	—	0	0
#2	H.I. is equal to or less than C.I.	0	■	—	0	0
#3	Occupant load increase > 15%	—	■	—	0	0
#4	H.I. is 1 greater than C.I.	—	■	■	0	0
#5	H.I. is 2 or more greater than C.I.	—	■	■	0	0
Column 1		2	3	4	5	6

Notes to Table 11.3.1.A.:

The symbols used mean the following:

(1) \* = Optional Compliance  
0 = Alternative Compliance  
■ = Mandatory Compliance

(2) E.W./EVAC. = Early Warning and Evacuation Systems

(3) C.A. = Compliance Alternative

(4) A.M. = Alternative Measure

TABLE 11.3.1.B.

Forming Part of Article 11.3.3.2. and Sentences 11.3.4.1.(3) and (4)

FOR EVALUATION AND UPGRADING OF EARLY WARNING/EVACUATION		
RENOVATION ACTIVITY (1)	EW/EVAC, EVALUATION AND UPGRADING	PART 11 COMPLIANCE ALTERNATIVE (2)
#1 (3)	—	—
#2 (4)	<p>Early Warning and Evacuation to be checked against</p> <p>(a) <i>access to exit</i> widths based on <i>occupant load</i> in Subsection 3.3.1. or 9.9.3.;</p> <p>(b) <i>exit</i> widths based on <i>occupant load</i> in Subsection 3.4.3. or 9.9.3.;</p> <p>(c) <i>exit</i> signs in Subsection 3.4.5. or 9.9.10.;</p> <p>(d) lighting of <i>exits</i>, lighting of <i>access to exits</i> and emergency lighting in Subsection 3.2.7. or 9.9.11.;</p> <p>(e) fire alarm system in Subsection 3.2.4. or 9.10.17.; and</p> <p>(f) travel distance and number of <i>exits</i> in other Parts of the Code,</p> <p>and deficiencies shall be upgraded.</p>	<p>EARLY WARNING</p> <p>(a) <i>Compliance alternatives</i> as listed may be used.</p> <p>EVACUATION</p> <p>(b) <i>Compliance alternatives</i> as listed to <i>access to exit</i> and <i>exit</i> widths, number of <i>exits</i>, and travel distance may be used.</p>
#3, #4, #5 (5)	<p>Early Warning and Evacuation to be checked against</p> <p>(a) <i>access to exit</i> widths based on <i>occupant load</i> in Subsection 3.3.1. or 9.9.3.;</p> <p>(b) <i>exit</i> widths based on <i>occupant load</i> in Subsection 3.4.3. or 9.9.3.;</p> <p>(c) <i>exit</i> signs in Subsection 3.4.5. or 9.9.10.;</p> <p>(d) lighting of <i>exits</i>, lighting of <i>access to exits</i> and emergency lighting in Subsection 3.2.7. or 9.9.11.;</p> <p>(e) fire alarm system in Subsection 3.2.4. or 9.10.17.; and</p> <p>(f) travel distance and number of <i>exits</i> in other Parts of the Code,</p> <p>and deficiencies shall be upgraded.</p>	<p>EARLY WARNING</p> <p>(a) <i>Compliance alternatives</i> as listed may be used.</p> <p>EVACUATION</p> <p>(b) <i>Compliance alternatives</i> as listed to <i>access to exit</i> and <i>exit</i> widths, number of <i>exits</i>, and travel distance may be used.</p>
Column 1	2	3

**Notes to Table 11.3.1.B.:**

- (1) See Table 11.3.1.A.
- (2) See Tables 11.2.3.A., 11.2.3.B., 11.2.3.C., 11.2.3.D/E and 11.2.3.F for *compliance alternatives* that may be used.
- (3) Does not apply to Renovation Activity #1.
- (4) Applies to change of *major occupancy* to one of equal or lesser hazard.
- (5) Applies to change of *major occupancy* to one of greater hazard, and to increase in *occupant load* greater than 15%.



**TABLE 11.3.1.C.**  
Forming Part of Sentence 11.3.4.1.(4)

<b>ADDITIONAL UPGRADING</b>				
<b>New Major Occupancy (H.I.) Number</b>	<b>Increase of C.I. to Equal H.I. to Support New Major Occupancy</b>	<b>Additional Required Upgrading</b>	<b>Part 11 Compliance Alternative</b>	<b>Comments</b>
H.I.2	C.I. 1 to 2	Comply with Table 11.4.1.A. ratings for C.I. of 2	(a) Provide Early Warning system or  (b) Comply with any C.A.'s in Col. 4.	
H.I.3	C.I. (1 or 2) to 3	Comply with Table 11.4.1.A. ratings for C.I. of 3	(a) Provide Early Warning system or (b) Comply with any C.A.'s in Col. 4.	Renovation Activity #4 or #5 <i>Combustible to Combustible only.</i>
H.I.4	C.I. (1, 2 or 3) to 4	Comply with Table 11.4.1.A. ratings for C.I. of 4	Provide sprinklers in locations where assemblies do not comply with Table 11.4.1.A.	Renovation Activity #4 or #5 <i>Combustible to Combustible.</i> <i>Noncombustible to Noncombustible.</i>
H.I.5	C.I. 4 to 5	Comply with Table 11.4.1.A. ratings for C.I. of 5	Provide sprinklers in locations where assemblies do not comply with Table 11.4.1.A.	Renovation Activity #4
H.I.5	C.I. (1, 2 or 3) to 5	Comply with Table 11.4.1.A. ratings for C.I. of 5	Provide sprinklers in locations where assemblies do not comply with Table 11.4.1.A.	Renovation Activity #5 <i>Combustible to Combustible.</i> <i>Noncombustible to Noncombustible.</i>
H.I.6	C.I. 5 ( <i>Noncombustible</i> ) to 6	Comply with Table 11.4.1.A. ratings for C.I. of 6	(a) Provide sprinkler system, plus ¾ h roof rating.	Renovation Activity #4
H.I.6	C.I. 5 ( <i>Heavy timber</i> ) to 6	Comply with C.A.	(b) Provide sprinkler system.	Renovation Activity #4
H.I.6	C.I. 5 ( <i>Combustible</i> ) to 6	Comply with C.A.	(c) Provide 1 h rating plus sprinkler system.	Renovation Activity #4
H.I.6	C.I. (3 or 4) to 6*	Comply with Table 11.4.1.A. ratings for C.I. of 6	(d) Provide sprinkler system, plus ¾ h rating.	Renovation Activity #5 *For <i>Noncombustible construction</i> only.
H.I.6	C.I. (1, 2, 3 or 4) to 6**	Comply with C.A.	(e) Provide 1 h rating plus sprinkler system.	Renovation Activity #5 **For <i>Combustible construction</i> only.
H.I.7	C.I. 6 to 7	Comply with Table 11.4.1.A. ratings for C.I. of 7	(a) Provide sprinkler system.	Renovation Activity #4
Column 1	2	3	4	5

TABLE 11.3.1.C.—(Cont'd)  
Forming Part of Sentence 11.3.4.1.(4)

ADDITIONAL UPGRADING				
New Major Occupancy (H.I.) Number	Increase of C.I. to Equal H.I. to Support New Major Occupancy	Additional Required Upgrading	Part 11 Compliance Alternative	Comments
H.I.7	C.I. (3, 4 or 5) to 7*	Comply with Table 11.4.1.A. ratings for C.I. of 7	(b) Provide sprinkler system plus 1 h rating.	Renovation Activity #5 *For Noncombustible construction only.
H.I.8	C.I. 7 to 8	Comply with Table 11.4.1.A. ratings for C.I. of 8	(a) Provide sprinkler system.	Renovation Activity #4
H.I.8	C.I. 6 to 8	Comply with Table 11.4.1.A. ratings for C.I. of 8	(b) Provide supervised sprinkler system.	Renovation Activity #5
H.I.8	C.I. (3, 4 or 5) to 8*	Comply with Table 11.4.1.A. ratings for C.I. of 8	(c) Provide sprinkler system plus 1 h rating.	Renovation Activity #5 *For Noncombustible construction only.
Column 1	2	3	4	5

**Notes to Table 11.3.1.C.:**

- (1) One asterisk (\*) refers to *Noncombustible construction*.  
 (2) Two asterisks (\*\*) refers to *Combustible construction*.

TABLE 11.4.1.A.  
Forming Part of Section 11.4

CONSTRUCTION INDEX				
FIRE-RESISTANCE RATING			TYPE OF CONSTRUCTION	C.I.
FLOORS OVER BASEMENT	OTHER FLOORS	ROOF		
3 h	3 h	1 1/2 h	Noncombustible	8 (1)
2 h	2 h	1 h	Noncombustible	7
1 h	1 h	3/4 h	Noncombustible	6
3/4 h	3/4 h	0 h	Noncombustible	5
3/4 h	3/4 h	3/4 h	Heavy Timber	5
3/4 h	3/4 h	3/4 h	Combustible	5
3/4 h	0 h (6)	0 h	Noncombustible	4
3/4 h	3/4 h	0 h	Combustible	4
1/2 h	0 h (6)	0 h	Noncombustible	3
1/2 h	1/2 h	0 h	Combustible	3
0 h	1/2 h	0 h	Combustible	2
0 h	0 h	0 h	Combustible	1 (1)
Column 1	2	3	4	5

Notes to Table 11.4.1.A.:

- (1) C.I. of 1 is lowest fire protection performance level and C.I. of 8 is highest.
- (2) Take highest rating for C.I. from Table 11.4.1.A. for existing building.
- (3) For residential occupancies with a H.I. of 3, all floors shall have a minimum 1/2 h fire-resistance rating.
- (4) For residential occupancies with a H.I. of 4 or more, all floors shall have a minimum 3/4 h fire-resistance rating.
- (5) For institutional occupancies, with any H.I., all floors shall have a minimum 3/4 h fire-resistance rating.
- (6) Except for C.I. of 1 or 2, all floor assemblies with 0 h fire-resistance rating shall be fire separations.

**TABLE 11.4.1.B.**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP A DIVISION 1	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Dinner Theatres	4	5	6
Live Theatres	4	5	6
Motion Picture Theatres	4	5	6
Opera Houses	4	5	6
Television Studios (With Audience)	4	5	6
Column 1	2	3	4

**Notes to Table 11.4.1.B.:**

(1)

Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"> <li>- 300 <i>occupant load</i> maximum / 1 <i>storey</i></li> <li>- 600 m<sup>2</sup> / 600 <i>occupant load</i> maximum / 1 <i>storey</i> with less than 40% 2 <i>storey</i> (6)</li> <li>- Any area / not exceeding 18 m in <i>building height</i></li> <li>- Over 18 m in <i>building</i></li> </ul>	Small Medium  Large H.I. = 7

(2) Sizes are *building area* and *building height*.

(3) *Building size* is based on the existing *building* facing one *street*.

(4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.

(5) Take lowest rating for H.I. from Table for *major occupancy* change.

(6) *Building* may have less than 40% of its area as 2 *storey* for purposes as described in Clauses 3.2.2.17.(1) (b) and (c).



**Table 11.4.1.C.**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP A DIVISION 2	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Art Galleries	3	4	6
Auditoria	3	4	6
Billiard Halls, Amusement Arcades	3	4	6
Bowling Alleys	3	4	6
Churches	3	4	6
Clubs, Lodges (Non-Residential)	3	4	6
Community Halls	3	4	6
Concert Halls	3	4	6
Court Rooms	3	4	6
Dance Halls	3	4	6
Daycare Centres	3	4	6
Exhibition Halls (Without Sales)	3	4	6
Exhibition Halls (With Sales)		See Group E	
Gymnasias (Multi-Purpose)	3	4	6
Gymnasias (Athletic)	3	4	6
Lecture Halls	3	4	6
Libraries	3	4	6
Licensed Beverage Establishments	3	4	6
Licensed Clubs, Lodges	3	4	6
Museums	3	4	6
Passenger Stations/Depots	3	4	6
Public Heritage Buildings	3	—	—
Recreational Piers	3	4	6
Restaurants	3	4	6
Schools, Colleges	3	4	6
Undertaking Premises	3	4	6
Column 1	2	3	4

**Notes to Table 11.4.1.C.:**

(1)

<i>Building Size (Maximum) (2) (3)</i>	
<ul style="list-style-type: none"> <li>- 400 m<sup>2</sup> / 1 storey</li> <li>- 250 m<sup>2</sup> / 3 storey (<i>Public Heritage Building</i>)</li> <li>- 800 m<sup>2</sup> / 2 storey</li> <li>- Any area / not exceeding 18 m in <i>building height</i></li> <li>- Over 18 m in <i>building height</i></li> </ul>	Small Small Medium Large H.I. = 7

(2) Sizes are *building area* and *building height*.(3) *Building size* is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.(5) Take lowest rating for H.I. from Table for *major occupancy change*.(6) *Buildings* exceeding 3 storeys in *building height* and which are *combustible* shall be *sprinklered*.**Table 11.4.1.D.**

Forming Part of Subsection 11.4.1.

<b>HAZARD INDEX</b>			
<b>GROUP A DIVISION 3</b>	<b>OCCUPANCY H.I.</b>		
	<b>SMALL</b>	<b>MEDIUM</b>	<b>LARGE</b>
Arenas (No <i>Occupancy</i> On Activity Surface)	3	4	6
Armouries (No <i>Occupancy</i> On Activity Surface)	3	4	6
Enclosed Stadia or Grandstand	3	4	6
Ice Rinks (No <i>Occupancy</i> On Activity Surface)	3	4	6
Indoor Swimming Pools	3	4	6
Column 1	2	3	4

**Notes to Table 11.4.1.D.:**

(1)

<i>Building Size (Maximum) (2) (3)</i>	
<ul style="list-style-type: none"> <li>- 1000 m<sup>2</sup> / 1 storey</li> <li>- 2000 m<sup>2</sup> / 2 storey</li> <li>- Any area / not exceeding 18 m in <i>building height</i></li> <li>- Over 18 m in <i>building height</i></li> </ul>	Small Medium Large H.I. = 7

(2) Sizes are *building area* and *building height*.(3) *Building size* is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.(5) Take lowest rating for H.I. from Table for *major occupancy change*.

Table 11.4.1.E.  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP A DIVISION 4	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Amusement Park Structures	2	3	5
Bleachers	1	3	5
Grandstands (Open)	1	3	5
Reviewing Stands	1	3	5
Stadia (Open)	1	3	5
Column 1	2	3	4

Notes to Table 11.4.1.E.:

Building Size (Maximum) (2) (3)	
– 2500 occupant load max./min. limiting distance of 6 m (combustible)	Small
– 15,000 occupant load maximum (with roof at least ½ rating if combustible)	Medium
– Unlimited occupant load	Large

- (2) Sizes are building area and building height.  
(3) Building size is based on the existing building facing one street.  
(4) For existing buildings facing multiple streets see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.  
(5) Take lowest rating for H.I. from Table for major occupancy change.

Table 11.4.1.F.  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP B DIVISION 1	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Detention Facilities (Minimum Security) (4)	4	5	6
Detention Facilities (All other types of security)	6	6	7
Column 1	2	3	4

Notes to Table 11.4.1.F.:

Building Size (Maximum) (2)	
– Any area / 1 storey	Small
– Any area (noncombustible) / 2 storey	Medium
– Any area (noncombustible); 500 m² (combustible) / 2 storey	Large
– Over 18 m in building height (noncombustible)	H.I. = 7
– Over 500 m² (combustible) / over 2 storey	H.I. = 7

- (2) Sizes are *building area* and *building height*.  
 (3) Take lowest rating for H.I. from Table for *major occupancy* change.  
 (4) Minimum security - means occupants free to *exit* building in a fire emergency.

**Table 11.4.1.G.**  
 Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP B DIVISION 2	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE (7)
Hospital, Nursing Home, Geriatric, Sanatorium (6) (Immobile)	4	5	7
Hospital, Nursing Home, Geriatric, Sanatorium (6) (Non-Ambulatory)	4	5	6
Hospital, Nursing Home, Geriatric, Sanatorium (6) (Ambulatory)	3	4	6
Psychiatric Hospitals (Maximum Confinement)	4	5	7
Psychiatric Hospitals (Minimum Confinement)	3	4	6
Social Care Facilities (6) (Non-Ambulatory)	4	5	6
Social Care Facilities (6) (Ambulatory)	3	4	6
Police Station With Detention	3	3	—
Column 1	2	3	4

**Notes to Table 11.4.1.G.:**

(1)

Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"> <li>– 250 m<sup>2</sup> / 1 storey</li> <li>– 500 m<sup>2</sup> / 2 storey; 1000 m<sup>2</sup> / 1 storey</li> <li>– 600 m<sup>2</sup> / 1 storey (Police Station With Detention, only)</li> <li>– Any area / not exceeding 18 m in <i>building height</i></li> <li>– Over 18 m in <i>building height</i></li> </ul>	Small Medium Medium Large (7) H.I. = 7 (7)

- (2) Sizes are *building area* and *building height*.  
 (3) *Building* size is based on the existing *building* facing one *street*.  
 (4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.  
 (5) Take lowest rating for H.I. from Table for *major occupancy* change.  
 (6) Immobile-means patients attached to life support systems and cannot be moved. Non-Ambulatory-means patients confined to bed and require transportation. Ambulatory-means patients may walk on their own.  
 (7) *Buildings* fitting into the category of "Large" and which are *combustible*, shall be *sprinklered*.



Table 11.4.1.H.  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP C	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Apartments	3	4	6
Boarding Houses/Group Homes	3	-	-
Clubs, Residential	3	4	6
Colleges, Residential	3	4	6
Convents	3	4	6
Dormitories/Hostels	3	4	6
Houses, S.F.	2	2	-
Lodging Houses	3	-	-
Monasteries	3	4	6
Public Heritage Buildings	3	-	-
Rectories	2	-	-
Retirement Homes	3	4	6
Rooming Houses	3	-	-
Schools, Residential	3	4	6
Column I	2	3	4

Notes to Table 11.4.1.H.:

(1)

Building Size (Maximum) (2)	
<div><div>- 600 m<sup>2</sup> / 3 storey</div><div>- 250 m<sup>2</sup> / 3 storey (Public Heritage Building)</div><div>- 2000 m<sup>2</sup> / not exceeding 6 storeys</div><div>- Any area / not exceeding 36 m in building height</div><div>- Over 36 m in building height</div></div>	<div>Small</div> <div>Small</div> <div>Medium</div> <div>Large</div> <div>H.I. = 7</div>

(2) Sizes are building area and building height.

(3) Buildings exceeding 3 storeys in building height and which are combustible shall be sprinklered.

(4) Take lowest rating for H.I. from Table for major occupancy change.

**Table 11.4.1.I.**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP D	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Advertising and Sales Offices	3	3	5
Automatic Bank Deposit	3	4	5
Barber/Hairdresser Shops	3	4	5
Beauty Parlours	3	4	5
Branch Banks	3	4	5
Car Rental Premises	3	3	5
Chiropractic Offices	3	4	5
Communications Offices (Telephone E.)	3	4	5
Communications Offices (Telex)	3	4	5
Communications Offices (Courier)	3	3	5
Computer Centres	3	4	5
Construction Offices	3	3	5
Costume Rental Premises	3	4	5
Dental Offices (Denture Clinic)	3	4	5
Dental Offices (General)	3	4	5
Dental Offices (Surgical/Anaesthesia)	4	5	6
Dry Cleaning Depots	3	4	5
Dry Cleaning Premises (Self-Serve)	4	4	5
Health/Fitness Clubs	3	4	5
Laundries (Self-Serve)	4	4	5
Massage Parlours	3	4	5
Medical Offices (Examination)	3	4	5
Medical Offices (Surgical/Anaesthesia)	4	5	6
Offices (Business)	3	3	5
Offices (Charitable)	3	3	5
Offices (Legal/Accounting)	3	3	5
Column 1	2	3	4

Table 11.4.1.I. (Cont'd)  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP D	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Offices/Studios (Design)	3	4	5
Pharmacy Offices	3	4	5
Photographic Studios	3	4	5
Physiotherapy Offices	3	4	5
Police Stations (No Detention)	3	4	5
Printing and Duplicating	4	5	6
Public Heritage Buildings	3	-	-
Public Saunas	3	4	5
Radio Stations (No Audience)	3	4	5
Small Tool Rental Premises	3	4	5
Suntan Parlours	3	4	5
Veterinary Offices	3	4	5
Column 1	2	3	4

Notes to Table 11.4.1.I.:

(1)

Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"><li>- 800 m<sup>2</sup> / 2 storey</li><li>- 250 m<sup>2</sup> / 3 storey (<i>Public Heritage Building</i>)</li><li>- 1600 m<sup>2</sup> / 3 storey</li><li>- Any area / not exceeding 18 m in <i>building height</i></li><li>- Over 18 m, but not exceeding 36 m in <i>building height</i></li><li>- Over 36 m in <i>building height</i></li></ul>	Small Small Medium Large H.I. = 6 H.I. = 7

(2) Sizes are *building area* and *building height*.

(3) *Building* size is based on the existing *building* facing one *street*.

(4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.

(5) Take lowest rating for H.I. from Table for *major occupancy* change.

**Table 11.4.1.J.**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP E	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Automotive/Hardware Department Stores	4	5	7
China Shops	3	4	6
Department Stores	4	5	7
Electrical Stores (Fixtures)	3	3	5
Exhibition Halls (With Sales)	4	5	7
"Fast Food" Outlets	3	4	5
Feed And Seed Stores	4	5	7
Flea Markets	4	5	7
Flower Shops	3	4	6
"Food" and Vegetable Markets	3	4	6
Garden Shops	3	4	6
"Gas" Bars	4	5	7
Gift Shops	3	4	6
Home Improvement Stores	4	5	7
Kitchen/Bathroom Cupboards Stores	3	4	6
Plumbing Stores (Fixtures/Accessories)	3	3	5
"Pop" Shops	3	4	6
Public Heritage Buildings	3	-	-
Rentals (See "D")	-	-	-
Restaurants (Not More Than 30 Persons)	3	4	5
Shopping Malls	4	5	7
Stationery/Office Supply Stores	3	4	6
Stores (Art)	3	4	6
Stores (Baked Goods)	3	4	6
Stores (Beer)	3	4	6
Stores (Book)	3	4	6
Stores (Camera)	3	4	6
Stores (Candy)	3	4	6
Stores (Clothing)	3	4	6



Table 11.4.1.J. (Cont'd)  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUPE	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Stores (Drugs)	4	4	6
Stores (Electronic)	3	4	6
Stores (Floor Coverings)	4	5	7
Stores (Food)	3	3	6
Stores (Furniture/Appliances)	3	4	6
Stores (Hardware)	4	5	7
Stores (Health)	4	4	6
Stores (Hobby)	3	4	6
Stores (Jewellery)	3	3	5
Stores (Paint/Wallpaper)	4	5	7
Stores (Pet)	3	4	6
Stores (Records/Tapes)	3	4	6
Stores (Spirits)	4	5	7
Stores (Toys)	4	5	7
Stores (Variety)	4	4	6
Stores (Video Sales/Rental)	3	4	6
Supermarkets	3	4	6
Column 1	2	3	4

Notes to Table 11.4.1.J.:

(1)	
Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"><li>– 600 m<sup>2</sup> / 2 storey</li><li>– 250 m<sup>2</sup> / 3 storey (<i>Public Heritage Building</i>)</li><li>– 800 m<sup>2</sup> / 3 storey</li><li>– Any area / up to 18 m in building height</li><li>– Over 18 m in building height</li></ul>	Small Small Medium Large H.I. = 7

- (2) Sizes are building area and building height.
- (3) Building size is based on the existing building facing one street.
- (4) For existing buildings facing multiple streets see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.
- (5) Take lowest rating for H.I. from Table for major occupancy change.
- (6) All buildings 1,500 m<sup>2</sup> and over are to be sprinklered.

**Table 11.4.1.K.**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP F DIVISION 1	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Ammunition Manufacturing and Storage	3	6	8
Black Powder Manufacturing and Storage	3	6	8
Bulk Plants for Flammable Liquids	3	6	8
Bulk Storage Warehouse (Hazardous Substances)	3	6	8
Cereal and Feed Mills	3	6	8
Chemical Manufacturing/Processing Plant	3	6	8
Distilleries	3	6	8
Dry Cleaning Plants (Flammable)	3	6	8
Explosives Manufacturing and Storage	3	6	8
Fertilizer Manufacturing Plants	3	6	8
Fireworks Manufacturing and Storage	3	6	8
Flour Mills	3	6	8
Gas (Flammable) Compressor Stations	3	6	8
Gas (Flammable) Manufacturing and Storage	3	6	8
Grain Elevators	3	6	8
Lacquer Factories	3	6	8
Loading Areas (for all Group F, Division 1)	3	6	8
Mattress Factories (High Fire Load)	3	6	8
Paint/Varnish/Pyroxylin Factories	3	6	8
Petrochemical Plants	3	6	8
Refineries	3	6	8
Rubber Processing Plants	3	6	8
Spray Painting Operations	3	6	8
Waste Paper Processing Plants (Dry)	3	6	8
Column 1	2	3	4

Notes to Table 11.4.1.K.:

(1)

Building Size (Maximum) (2)	
- 400 m <sup>2</sup> / 2 storey - 600 m <sup>2</sup> / 4 storey - 1500 m <sup>2</sup> / 4 storey	Small Medium Large

(2) Sizes are *building area* and *building height*.

(3) Take lowest rating for H.I. from Table for *major occupancy* change.

(4) All *buildings* 1,500 m<sup>2</sup> and over are to be *sprinklered*.

(5) All floor assemblies shall be *fire separations*.

Table 11.4.1.L.  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP F DIVISION 2	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Aircraft Hangars	3	5	6
Abattoirs	3	4	5
Bakeries	3	5	6
Body Shops	3	5	6
Candy Plants	3	4	5
COLD STORAGE PLANTS			
Combustible Insulation Flammable Refrigerant Combustible Packaging	3	5	7
Combustible Insulation Flammable Refrigerant Noncombustible Packaging	3	5	6
Combustible Insulation Non-Flammable Refrigerant Noncombustible Packaging	3	4	5
Noncombustible Insulation Non-Flammable Refrigerant Noncombustible Packaging	2	3	4
Dry Cleaning Establishments (non-flammable or non-explosive)	3	4	5
Electrical Substations	3	4	5
Factories (High Fire Load)	3	5	6
Freight Depots (High Fire Load)	3	5	6
Helicopter Landings (on roof)	3	4	5
Laboratories (High Fire Load)	3	5	6
Laundries (not self-serve)	3	4	5
Column 1	2	3	4

(1)  
(2)

**Table 11.4.1.L. (Cont'd)**  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP F DIVISION 2	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Manufacturer Sales (High Fire Load)	3	5	6
Mattress Factories	3	4	5
Meat Packing Plants	3	4	5
Packaging Manufacturers (Cellulose)	3	4	5
Packaging Manufacturers (Noncombustible)	2	3	4
Packaging Manufacturers (Plastics)	3	5	6
Paper Processing Plants (Wet)	3	5	6
Planing Mills	3	5	6
Printing Plants	3	4	5
Public Heritage Buildings	3	3	-
Repair Garages	3	5	6
Sample Display Rooms (High Fire Load)	3	5	6
Self-Service Storage Buildings	3	4	5
Service Stations (no spray painting)	3	5	6
Storage Rooms (High Fire Load)	3	5	6
Television Studios (no audience)	3	4	5
Tire Storage	3	5	6
Warehouses (High Fire Load)	3	5	6
Welding Shops	3	5	6
Wholesale Rooms (High Fire Load)	3	5	6
Wood Working Factories	3	5	6
Workshops (High Fire Load)	3	5	6
Column 1	2	3	4

**Notes to Table 11.4.1.L.:**

(1)

Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"> <li>- 600 m<sup>2</sup> / 2 storey</li> <li>- 800 m<sup>2</sup> / 4 storey</li> <li>- 600 m<sup>2</sup> / 3 storey (<i>Public Heritage Building</i>)</li> <li>- 1500 m<sup>2</sup> / 6 storey not exceeding 18 m in <i>building height</i></li> <li>- Over 18 m in <i>building height</i></li> </ul>	Small Medium Medium Large H.I. = 7



- (2) Sizes are *building area* and *building height*.
- (3) *Building* size is based on the existing *building* facing one *street*.
- (4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.
- (5) Take lowest rating for H.I. from Table for *major occupancy* change.
- (6) All *buildings* 1,500 m<sup>2</sup> and over are to be *sprinklered*.

Table 11.4.1.M.  
Forming Part of Subsection 11.4.1.

HAZARD INDEX			
GROUP F DIVISION 3	OCCUPANCY H.I.		
	SMALL	MEDIUM	LARGE
Creameries	2	2	3
Factories (Low Fire Load)	2	3	4
Freight Depots (Low Fire Load)	2	3	4
Laboratories (Low Fire Load)	2	3	4
Manufacturers Sales (Low Fire Load)	2	3	4
Power Plants	3	4	5
Public Heritage Buildings	3	3	-
Sample Display Rooms (Low Fire Load)	2	3	4
Storage Garages	2	3	4
Storage Rooms (Low Fire Load)	2	3	4
Warehouses (Low Fire Load)	2	3	4
Wholesale Rooms (Low Fire Load)	2	3	4
Workshops (Low Fire Load)	2	3	4
Column 1	2	3	4

Notes to Table 11.4.1.M.:

Building Size (Maximum) (2) (3)	
<ul style="list-style-type: none"><li>- 800 m<sup>2</sup> / 2 storey</li><li>- 1200 m<sup>2</sup> / 4 storey</li><li>- 600 m<sup>2</sup> / 3 storey (<i>Public Heritage Building</i>)</li><li>- Any area / 6 storey not exceeding 18 m in <i>building height</i></li><li>- Over 18 m, but not exceeding 36 m in <i>building height</i></li><li>- Over 36 m in <i>building height</i></li></ul>	<ul style="list-style-type: none"><li>Small</li><li>Medium</li><li>Large</li><li>H.I. = 5</li><li>H.I. = 6</li></ul>

- (2) Sizes are *building area* and *building height*.
- (3) *Building* size is based on the existing *building* facing one *street*.
- (4) For existing *buildings* facing multiple *streets* see Sentences 11.3.4.1.(4) and (5) and Table 11.3.1.C.
- (5) Take lowest rating for H.I. from Table for *major occupancy* change.

Table 11.4.2.A.(1)  
Forming Part of Subsection 11.4.2.

ADDITIONAL UPGRADING FOR MULTIPLE MAJOR OCCUPANCIES		
NEW MAJOR OCCUPANCY	CODE REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
All (2)	Table 3.1.3.A. and Subsection 9.10.9	
	Where:	For Existing Building Reduce to
	1 h rating required	$\frac{3}{4}$ h
	2 h rating required	$1\frac{1}{2}$ h
	3 h rating required	2 h
Column 1	2	3

- Notes to Table 11.4.2.A.:**
- (1) For *buildings* with multiple *major occupancies* only, where there is a change in *major occupancy*.
  - (2) See Subsection 11.3.4. and Section 11.4.

**Part 12**

**Transition, Revocation and Commencement**

Section 12.1	Transition
12.2	Revocation
12.3	Commencement

## **Part 12**

### **Transition, Revocation and Commencement**

#### **Section 12.1 Transition Rule**

##### **12.1.1. Transition Rule**

**12.1.1.1.** Notwithstanding the revocation of Ontario Regulation 419/86, that Regulation continues in force in respect of *construction*

- (a) for which a permit has been issued before the 1st day of October, 1990, or
- (b) for which the working drawings, plans and specifications are substantially completed before the 1st day of October, 1990, and for which an application for a permit under Ontario Regulation 419/86 is made before the 1st of January, 1991

on condition that the *construction* is commenced within six months after the permit is issued.

#### **Section 12.2 Revocation**

##### **12.2.1. Revocation**

**12.2.1.1.** Ontario Regulations 419/86, 183/88, 581/88, 114/89 and 115/89 are revoked.

#### **Section 12.3 Commencement**

##### **12.3.1. Commencement**

**12.3.1.1.** This Regulation comes into force on the 1st day of October, 1990.



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## Information

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Advertisements including the names of any signing officers must be typed or written legibly. Advertising rates are: \$14.40 per 25 mm for a single column and \$29.20 per 25 mm for a double column.

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# The Ontario Gazette La Gazette de l'Ontario

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Saturday, August 25th, 1990

Toronto

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# The Ontario Gazette La Gazette de l'Ontario

Vol. 123-34

Toronto

ISSN 0030-2937

Saturday, August 25th, 1990

Samedi, le 25 août 1990

## Proclamations

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS  
SHALL COME,

GREETING:

### PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989, and adjourned on the twenty-eighth day of June, 1990, intituled the *Police Services Act, 1990*, Statutes of Ontario, 1990, chapter 10, it is enacted thereof that Part VII of the said Act shall come into force on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now issue bringing Part VII of the said Act into force;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Wednesday, the eighth day of August, 1990 as the day upon which

Part VII of the said Act intituled the *Police Services Act, 1990*, Statutes of Ontario, 1990, chapter 10, shall come into force.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this eighth day of August, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,

Minister of Government Services.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres

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royaumes et territoires, Chef du Commonwealth,  
Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉ-  
SENTES,

SALUT :

# PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1990 sur les services policiers*, chapitre 10 des Lois de l'Ontario 1990, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, et ajournée le vingt-huitième jour de juin 1990, il est décrété que la Partie VII de ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre la Partie VII de ladite loi en vigueur;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le mercredi huitième jour d'août 1990 comme étant le jour où la Partie VII de ladite loi intitulée *Loi de 1990 sur les services policiers*, chapitre 10 des Lois de l'Ontario 1990, entrera en vigueur.

DE TOUTES CES PRÉMISSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER,  
membre de Notre Conseil privé pour le Canada,  
l'un de Nos conseillers juridiques, Bachelier ès  
arts, Docteur en droit, LIEUTENANT-GOU-  
VERNEUR DE NOTRE PROVINCE DE  
L'ONTARIO

en Notre cité de Toronto, dans ladite Province,  
cet huitième jour d'août de l'année mil neuf cent  
quatre-vingt-dix de notre ère et dans la trente-neu-  
vième année de Notre règne.

PAR ORDRE

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(4509) 34

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of  
God of the United Kingdom, Canada and Her

other Realms and Territories, Queen, Head of  
the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS  
SHALL COME,

GREETING:

# PROCLAMATION

WHEREAS by an Act passed at the Second Ses-  
sion of the Thirty-fourth Legislature of Ontario  
convened on the twenty-fifth day of April, 1989,  
intituled the *Justices of the Peace Act, 1989*, S.O.  
1989, c. 46, except subsections 2 (4) and 4 (2) and  
sections 15 and 16, it is enacted thereof that the  
said Act shall come into force on a day to be  
named by Our Lieutenant Governor by his Procla-  
mation;

AND WHEREAS it has appeared expedient  
that a Proclamation should now issue bringing the  
said Act into force, except subsections 2 (4) and 4  
(2) and sections 15 and 16;

NOW THEREFORE KNOW YE that, having  
taken the premises into Our Royal consideration,  
We, by and with the advice of Our Executive  
Council of Ontario and in the exercise of the  
power in US vested in this behalf by the said Act  
or otherwise howsoever, Do, by this Our Royal  
PROCLAMATION hereby Name Friday, the  
thirty-first day of August, 1990 as the day upon  
which the said Act intituled the *Justices of the  
Peace Act, 1989*, S.O. 1989, c. 46, except subsec-  
tions 2 (4) and 4 (2) and sections 15 and 16, shall  
come into force.

OF ALL WHICH PREMISES all Our loving  
subjects and all others whom it doth or may in  
anywise concern are hereby required to take notice  
and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused  
these Our Letters to be made patent and the Great  
Seal of Our Province of Ontario to be hereunto  
affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXAN-  
DER, A Member of Our Privy Council for  
Canada, One of Our Counsel Learned in the  
Law, Bachelor of Arts, Doctor of Laws, LIEU-  
TENANT GOVERNOR OF OUR PROVINCE  
OF ONTARIO,

at Our City of Toronto in Our said Province this  
twenty-seventh day of July, in the year of Our  
Lord one thousand nine hundred and ninety and in  
the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉSENTES,

SALUT :

## PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1989 sur les juges de paix*, L.O. 1989, chap. 46, sauf les paragraphes 2 (4) et 4 (2) et les articles 15 et 16, adoptée à la deuxième de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre ladite loi en vigueur, sauf les paragraphes 2 (4) et 4 (2) et les articles 15 et 16;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le vendredi trente et unième jour d'août 1990 comme étant le jour où ladite loi intitulée *Loi de 1989 sur les juges de paix*, L.O. 1989, chap. 46, sauf les paragraphes 2 (4) et 4 (2) et les articles 15 et 16, entrera en vigueur.

DE TOUTES CES PRÉMISSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER, membre de Notre Conseil privé pour le Canada, l'un de Nos conseillers juridiques, Bachelier ès arts, Docteur en droit, LIEUTENANT-GOUVERNEUR DE NOTRE PROVINCE DE L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce vingt-septième jour de juillet de l'année mil neuf cent quatre-vingt-dix de notre ère et dans la trente-neuvième année de Notre règne.

PAR ORDRE

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(4510) 34

(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS SHALL COME,

GREETING:

## PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989, intituled the *Courts of Justice Amendment Act, 1989 (No. 1)*, S.O. 1989, c. 55, except sections 23 and 25, it is enacted thereof that the said Act shall come into force on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now issue bringing the said Act into force except sections 23 and 25;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Saturday, the first day of September, 1990 as the day upon which the said Act intituled the *Courts of Justice Amendment Act, 1989 (No. 1)*, S.O. 1989, c. 55, shall come into force except sections 23 and 25.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this twenty-seventh day of July, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.



(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉSENTES.

SALUT :

## PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires (n° 1)*, L.O. 1989, chap. 55, sauf les articles 23 et 25, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre ladite loi en vigueur, sauf les articles 23 et 25;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le samedi premier jour de septembre 1990 comme étant le jour où ladite loi intitulée *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires (n° 1)*, L.O. 1989, chap. 55, entrera en vigueur, sauf les articles 23 et 25.

DE TOUTES CES PRÉMISSSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER, membre de Notre Conseil privé pour le Canada, l'un de Nos conseillers juridiques, Bachelier ès arts, Docteur en droit, LIEUTENANT-GOUVERNEUR DE NOTRE PROVINCE DE L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce vingt-septième jour de juillet de l'année mil neuf cent quatre-vingt-dix de notre ère et dans la trente-neuvième année de Notre règne.

PAR ORDRE

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(4511) 34

(Great Seal of Ontario)

LINCOLN M. ALEXANDER

PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS SHALL COME,

GREETING:

## PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989, intitled the *Courts of Justice Act, 1984*, as re-enacted by the *Courts of Justice Amendment Act, 1989 (No. 3)*, S.O. 1989, c. 70, s. 16, it is enacted thereof that subsections 70 (1) and (2) of the *Courts of Justice Act, 1984*, shall be repealed on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now repeal subsections 70 (1) and (2) of the said Act;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Saturday, the first day of September, 1990 as the day upon which subsections 70 (1) and (2) of the said Act intitled the *Courts of Justice Act, 1984*, as re-enacted by the *Courts of Justice Amendment Act, 1989 (No. 3)*, S.O. 1989, c. 70, s. 16, shall be repealed.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this twenty-seventh day of July, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.



(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉSENTES,

SALUT :

## PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1984 sur les tribunaux judiciaires*, décrétée à nouveau par la *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires* (n° 3), L.O. 1989, chap. 70, art. 16, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que les paragraphes 70 (1) et (2) de la *Loi de 1984 sur les tribunaux judiciaires* seront abrogés à la date fixée par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à abroger les paragraphes 70 (1) et (2) de ladite loi;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le samedi premier jour de septembre 1990 comme étant le jour où les paragraphes 70 (1) et (2) de ladite loi intitulée *Loi de 1984 sur les tribunaux judiciaires*, décrétée à nouveau par la *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires* (n° 3), L.O. 1989, chap. 70, art. 16, seront abrogés.

DE TOUTES CES PRÉMISSSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER, membre de Notre Conseil privé pour le Canada, l'un de Nos conseillers juridiques, Bachelier ès arts, Docteur en droit, LIEUTENANT-GOUVERNEUR DE NOTRE PROVINCE DE L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce vingt-septième jour de juillet de l'année mil neuf cent quatre-vingt-dix de notre ère et dans la trente-neuvième année de Notre règne.

PAR ORDRE

(4512) 34

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS  
SHALL COME,

GREETING:

## PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989, intituled the *Courts of Justice Amendment Act, 1989* (No. 3), S.O. 1989, c. 70, except section 16, it is enacted thereof that the said Act shall come into force on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now issue bringing the said Act into force except section 16;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Saturday, the first day of September, 1990 as the day upon which the said Act intituled the *Courts of Justice Amendment Act, 1989* (No. 3), S.O. 1989, c. 70, shall come into force except section 16.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this twenty-seventh day of July, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.

PAR ORDRE

(4513) 34

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉSENTES,

SALUT :

## PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires* (n° 3), L.O. 1989, chap. 70, sauf l'article 16, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre ladite loi en vigueur, sauf les l'article 16;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le samedi premier jour de septembre 1990 comme étant le jour où ladite loi intitulée *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires* (n° 3), L.O. 1989, chap. 70, entrera en vigueur, sauf l'article 16.

DE TOUTES CES PRÉMISSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER, membre de Notre Conseil privé pour le Canada, l'un de Nos conseillers juridiques, Bachelier ès arts, Docteur en droit, LIEUTENANT-GOUVERNEUR DE NOTRE PROVINCE DE L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce vingt-septième jour de juillet de l'année mil neuf cent quatre-vingt-dix de notre ère et dans la trente-neuvième année de Notre règne.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE OF ONTARIO

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

TO ALL TO WHOM THESE PRESENTS SHALL COME,

GREETING:

## PROCLAMATION

WHEREAS by an Act passed at the Second Session of the Thirty-fourth Legislature of Ontario convened on the twenty-fifth day of April, 1989, intituled the *Court Reform Statute Law Amendment Act, 1989*, S.O. 1989, c. 56, it is enacted thereof that the said Act shall come into force on a day to be named by Our Lieutenant Governor by his Proclamation;

AND WHEREAS it has appeared expedient that a Proclamation should now issue bringing the said Act into force;

NOW THEREFORE KNOW YE that, having taken the premises into Our Royal consideration, We, by and with the advice of Our Executive Council of Ontario and in the exercise of the power in US vested in this behalf by the said Act or otherwise howsoever, Do, by this Our Royal PROCLAMATION hereby Name Saturday, the first day of September, 1990 as the day upon which the said Act intituled the *Court Reform Statute Law Amendment Act, 1989*, S.O. 1989, c. 56, shall come into force.

OF ALL WHICH PREMISES all Our loving subjects and all others whom it doth or may in anywise concern are hereby required to take notice and govern themselves accordingly.

IN TESTIMONY WHEREOF We have caused these Our Letters to be made patent and the Great Seal of Our Province of Ontario to be hereunto affixed.

WITNESS:

THE HONOURABLE LINCOLN M. ALEXANDER, A Member of Our Privy Council for Canada, One of Our Counsel Learned in the Law, Bachelor of Arts, Doctor of Laws, LIEUTENANT GOVERNOR OF OUR PROVINCE OF ONTARIO,

at Our City of Toronto in Our said Province this twenty-seventh day of July, in the year of Our Lord one thousand nine hundred and ninety and in the thirty-ninth year of Our Reign.

BY COMMAND

CHRIS WARD,  
Minister of Government Services.

PAR ORDRE

(4514) 34

CHRIS WARD,  
Ministre des Services  
Gouvernementaux.

(Great Seal of Ontario)

LINCOLN M. ALEXANDER  
PROVINCE DE L'ONTARIO

ELIZABETH DEUX, par la grâce de Dieu, Reine  
du Royaume-Uni, du Canada et de ses autres  
royaumes et territoires, Chef du Commonwealth,  
Défenseur de la Foi.

À TOUS CEUX QUI RECEVRONT LES PRÉ-  
SENTES,

SALUT :

## PROCLAMATION

ATTENDU QUE dans la Loi intitulée *Loi de 1989 modifiant des lois concernant la réforme judiciaire*, L.O. 1989, chap. 56, adoptée à la deuxième session de la trente-quatrième Législature de l'Ontario convoquée le vingt-cinquième jour d'avril 1989, il est décrété que ladite loi entrera en vigueur le jour fixé par proclamation du Lieutenant-Gouverneur;

ET ATTENDU QU'il a semblé opportun qu'une proclamation soit rendue visant à mettre ladite loi en vigueur;

QU'IL SOIT PAR CONSÉQUENT ENTENDU QUE, les prémisses ayant fait l'objet de Notre considération royale, suivant l'avis de Notre Conseil des ministres de l'Ontario et dans l'exercice du pouvoir à NOUS conféré en la matière par ladite loi ou toute autre autorité, par la présente PROCLAMATION ROYALE, nous fixons le samedi premier jour de septembre 1990 comme étant le jour où ladite loi intitulée *Loi de 1989 modifiant des lois concernant la réforme judiciaire*, L.O. 1989, chap. 56, entrera en vigueur.

DE TOUTES CES PRÉMISSSES tous Nos dévoués sujets, et tous les autres qui y sont ou pourraient être intéressés d'une façon quelconque, sont priés de prendre avis et de se comporter en conséquence.

EN FOI DE QUOI nous avons fait des présentes Nos Lettres patentes et y avons apposé le Grand Sceau de Notre Province de l'Ontario.

TÉMOIN :

L'HONORABLE LINCOLN M. ALEXANDER,  
membre de Notre Conseil privé pour le Canada,  
l'un de Nos conseillers juridiques, Bachelier ès  
arts, Docteur en droit, LIEUTENANT-GOU-  
VERNEUR DE NOTRE PROVINCE DE  
L'ONTARIO

en Notre cité de Toronto, dans ladite Province, ce  
vingt-septième jour de juillet de l'année mil neuf  
cent quatre-vingt-dix de notre ère et dans la trente-  
neuvième année de Notre règne.

## MOTOR VEHICLE TRANSPORT ACT, 1987 LOI DE 1987 SUR LES TRANSPORTS ROUTIERS

### MOTOR VEHICLE TRANSPORT ACT, 1987, PART II TRUCK APPLICATIONS:

The following are applications for extra-provincial truck transport operating licences under Part II of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These Applicants have been found to meet the fitness requirements pursuant to Section 8(2) of that Act and the provincial transport board for Ontario proposes to issue the licences if no objection is served on the Applicant and filed with the Registrar of Motor Vehicles with the prescribed filing fee, within twenty-nine days of this publication.

## EXTRA-PROVINCIAL APPLICATIONS:

**NOTE:** Where the application is for a licence other than a corridor operating authority, an interested person who serves and files an objection must also provide the Ontario Highway Transport Board with written evidence, within thirty-nine days of this publication that satisfies that Board that, in the absence of evidence to the contrary, the operation of the undertaking in respect of which the licence is sought would likely be detrimental to the public interest.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below for extra-provincial movement, between (00000) POINTS IN ONTARIO and the:

### ONTARIO/QUEBEC, ONTARIO/MANITOBA, ONTARIO/USA BORDER CROSSINGS:

\*ACIER SOLAC LTEE 085575946  
4444 STE CATHERINE OUEST Original  
WESTMOUNT QUE  
H3Z 1R2

GENERAL FREIGHT; HOUSEHOLD GOODS,  
provided that the licensee only maintains a place  
or places of business in locations other than the  
Province of Ontario.

\*C.H. SAWYER LTD. 100251467  
L13 C6 TOWNSEND TWP Original  
WATERFORD R1, ONTARIO  
N0E 1Y0  
GENERAL FREIGHT; TANK; HOUSEHOLD  
GOODS, provided that the licensee has a place or



places of business only at: (12000)  
HALDIMAND-NORFOLK R.

**CALCIUM CHLORIDE SALES INC.** 092697466  
713 WEST MAIN ST Amend  
GROVE CITY, PA, USA  
16127  
GENERAL FREIGHT; TANK.

**\*CANADIAN AMERICAN TRANSPORTATION**  
**C.A.T. INC.** 078901490  
89 ARMAND ST Amend  
VALLEYFIELD QUEBEC  
J6S 4V5  
GENERAL FREIGHT; TANK; HOUSEHOLD  
GOODS, provided that the licensee has a place or  
places of business only at: (21102) MISSISSAUGA  
C.

**\*CANADIAN NATIONAL**  
**TRANSPORTATION LTD** 031373452  
935 DE LA GAUCHETIERE WEST Amend  
MONTREAL, QUEBEC  
H3B 2M9  
GENERAL FREIGHT.

**\*CARGO DIRECT LTD** 102622518  
270 ESNA PARK DRIVE UNIT 13 Original  
MARKHAM, ONTARIO  
L3R 1H3  
GENERAL FREIGHT; TANK.

**CELADON TRUCKING SERVICES OF INDIANA**  
**INC.** 095538412  
2995 SOUTH HARDING ST Amend  
INDIANAPOLIS IN, USA  
46225  
GENERAL FREIGHT.

**\*COPPOLA, ILARIO** 058583295  
1704 SILVERTHORN SQR Original  
PICKERING, ONTARIO  
L1V 5C4  
OWNER DRIVER, exempt from Public Interest  
Test; GENERAL FREIGHT; TANK.

**\*DASH SYSTEMS LIMITED** 086693094  
1015 WESTPORT CR Amend  
MISSISSAUGA, ONTARIO  
L5T 1E8  
HOUSEHOLD GOODS, provided that the  
licensee has a place or places of business only at:  
(21102) MISSISSAUGA C.

**\*DURHAM SECURITY SERVICES**  
**(CANADA) LTD** 083708137  
99 KIRBY CRES Original  
WHITBY, ONTARIO  
L1N 5S1  
GENERAL FREIGHT.

**\*DUTCHCAMP FARMS INC.** 102822798  
L10 C9 KINCARDINE TWP Original  
KINCARDINE RR5, ONTARIO  
N2Z 2X6  
SINGLE SOURCE.

**\*ENTREPRISES DE TRANSPORT I P S**  
**INC** 084471858  
460 4E AVENUE Original  
STE HELENE QUEBEC

J0H 1M0  
SINGLE SOURCE; GENERAL FREIGHT.

**\*GREY MAR TRANSPORT LTD** 024493632  
L23 C6 PEEL TSP Amend  
ARTHUR R1, ONTARIO  
N0G 1A0  
GENERAL FREIGHT; TANK.

**\*IRELAND, WILLIAM, A** 078489102  
338 MCEWAN AV Original  
WINDSOR, ONTARIO  
N9B 2E6  
SINGLE SOURCE; GENERAL FREIGHT.

**JOULE YACHT TRANSPORT INC.** 096582119  
12290 AUTOMOBILE BLVD Original  
CLEARWATER FLORIDA, USA  
34622  
GENERAL FREIGHT.

**\*LA COMPAGNIE GERMAIN**  
**PROVENCHER LTEE** 085404973  
8470 19TH AVE Original  
MONTREAL, QUEBEC  
H1J 7J3  
GENERAL FREIGHT; TANK.

**\*LESLIE O SMITH TRANSPORT**  
**LIMITED** 101905060  
224 SOUTH SERVICE RD Original  
STONE CREEK, ONTARIO  
L8E 2N9  
GENERAL FREIGHT.

**\*NOLAN, GERALD, N** 025676803  
L10 C3 BECKWITH Original  
SMITHS FALLS R6, ONTARIO  
K7A 4S7  
GENERAL FREIGHT; TANK.

**\*NORTHERN ALLIED SUPPLY CO**  
**LTD** 060432562  
352 RAILWAY ST PO BX90 Original  
TIMMINS, ONTARIO  
P4N 7C8  
GENERAL FREIGHT; TANK.

**\*O'C LIQUID WASTE HAULERS OF**  
**ONTARIO LTD** 037282240  
7130 PACIFIC CIR Original  
MISSISSAUGA, ONTARIO  
L4T 3B5  
GENERAL FREIGHT; TANK.

**\*PELLETIER, ROGER, A** 052841634  
424 ANN AVE Original  
TIMMINS, ONTARIO  
P4N 4V4  
GENERAL FREIGHT.



<p><b>*QUIRION, CLEMENT</b> 1620 DES MERISIERS STE-CATHERINE QC J0L 1E0 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.</p>	<p>102667106 Original</p>	<p><b>*SILVERTHORN, RODERICK</b> 405 WELLINGTON ST AP7 ST THOMAS, ONTARIO N5R 5T7 SINGLE SOURCE; GENERAL FREIGHT.</p>	<p>049440815 Original</p>
<p><b>REDBIRD DEVELOPMENT INC.</b> 1018 WHITLOCK RD ROCHESTER NEW YORK, USA 14609 GENERAL FREIGHT.</p>	<p>079975636 Original</p>	<p><b>*SOTECH TRANSPORT TORONTO INC.</b> 5425 DIXIE ROAD STE16 MISSISSAUGA, ONTARIO L4W 1E6 SINGLE SOURCE.</p>	<p>102700863 Original</p>
<p><b>*REGIS TRANSPORT LTD/ TRANSPORT REGIS LTEE</b> 317 ST-FRANCOIS-XAVIER DELSON QC J0L 1G0 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.</p>	<p>102514126 Original</p>	<p><b>*SPADA, GORDON, C</b> 641 BALMORAL DR BRAMALEA, ONTARIO L6T 1W8 GENERAL FREIGHT.</p>	<p>053387781 Original</p>
<p><b>ROWE TRANSPORTATION SERVICES INC.</b> 1207 LINBROOK ROAD OAKVILLE, ONTARIO L6J 2L5 GENERAL FREIGHT.</p>	<p>101032662 Amend</p>	<p><b>*STUBBS, ROBERT, THOMAS</b> 10 ALLAN ST BX1342 THEDFORD, ONTARIO N0M 2N0 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT; TANK.</p>	<p>041890948 Amend</p>
<p><b>*RYLANCE, KENNETH, R</b> L14 C2 NEWCASTLE R2, ONTARIO L0A 1H0 GENERAL FREIGHT.</p>	<p>002969098 Amend</p>	<p><b>VAIL NORTHWEST INC</b> 85331 HIGHWAY 99 SOUTH EUGENE OREGON, USA 97405 GENERAL FREIGHT.</p>	<p>098469991 Original</p>
<p><b>*SAGUENAY TRANSIT INC</b> 384 RUE SIMARD ST AMBROISE QUEBEC G0V 1R0 SINGLE SOURCE; GENERAL FREIGHT.</p>	<p>093246733 Original</p>	<p><b>*VALLELUNGA, GIUSEPPE</b> 259 REGINA AV THUNDER BAY, ONTARIO P7B 5B4 GENERAL FREIGHT.</p>	<p>018910071 Amend</p>
<p><b>*SALISBURY, JOHN, R</b> 601 CAMELOT DR OSHAWA, ONTARIO L1K 1K5 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.</p>	<p>014561557 Original</p>	<p><b>*VAN-SOELEN, LAURIE, J</b> L9 C6 WEST LUTHER TP KENILWORTH R4, ONTARIO N0J 2E0 GENERAL FREIGHT.</p>	<p>061404604 Original</p>
<p><b>*SAMUEL METAL SERVICE LTD</b> 7314 44 ST BOX 3597 LEDUC ALBERTA T9E 6M3 GENERAL FREIGHT.</p>	<p>082352099 Original</p>	<p><b>*VAUGHAN, CECIL, L</b> 282 WELLINGTON ST ST THOMAS, ONTARIO N5R 2S8 GENERAL FREIGHT; TANK.</p>	<p>030522986 Original</p>
<p><b>SCHALLOCK, ALAN</b> ROUTE 1 BOX 25 FLOYD IOWA, USA 50435 GENERAL FREIGHT.</p>	<p>102546413 Original</p>	<p><b>*VENTURE EQUIPMENT LEASING INC.</b> 505 WILLIAMS DR SARNIA, ONTARIO N7T 7V8 SINGLE SOURCE.</p>	<p>086225133 Original</p>
<p><b>SCHALLOCK, ALAN</b> ROUTE 1 BOX 25 FLOYD IOWA, USA 50435 GENERAL FREIGHT.</p>	<p>102546413 Original</p>	<p><b>*WOODBURY TRUCKING INC.</b> L10-11 C4 BURFORD TWP BURFORD RR1, ONTARIO N0E 1A0 GENERAL FREIGHT.</p>	<p>102769958 Original</p>

*168369 CANADA INC 27 MOREL CP 813 EVAIN QUEBEC J0Z 1Y0 SINGLE SOURCE.	101217712 Original	*729618 ONTARIO LTD. 600 MCMURRAY ROAD WATERLOO, ONTARIO N2V 1Y2 GENERAL FREIGHT.	102507123 Original
*2436-9753 QUEBEC INC. 2614 PLACE BERGERAC BOISBRIAND QUEBEC J7E 4H4 SINGLE SOURCE.	100502795 Original	*897657 ONTARIO LIMITED 356 BALSAM STREET SOUTH TIMMINS, ONTARIO P4N 2E7 SINGLE SOURCE; GENERAL FREIGHT.	102826668 Original
*2622-4121 QUEBEC INC. 1645 OXFORD ST ST-LAURENT QUEBEC H4L 1B4 OWNER DRIVER, exempt from Public Interest Test.	102512121 Original	ONTARIO/QUEBEC, ONTARIO/USA BORDER CROSSINGS:  J.P. NOONAN TRANSPORTATION INC. 436 WEST ST BX400 WEST BRIDGEWATER MASS, USA 02379 GENERAL FREIGHT; TANK.	102848624 Original
*2627-0264 QUEBEC INC. 265 CR JONCAIRE ILE BIZARD QUEBEC H9C 2K2 SINGLE SOURCE; GENERAL FREIGHT.	102833162 Original	*RAM CONTRACT CARRIERS LIMITED 153 LAIRD AVE ESSEX, ONTARIO N8M 1S4 GENERAL FREIGHT.	080308702 Original
*2752-7860 QUEBEC INC. 1122 RUE ST-PAUL ANCIENNE LORETTE QUEBEC G2E 1Y3 SINGLE SOURCE.	102471299 Original	ONTARIO/MANITOBA BORDER CROSSINGS:  G. WAKELY CARTAGE LTD. 373 WARD ST E PORT HOPE, ONTARIO L1A 4A4 GENERAL FREIGHT.	012938241 Amend
*2753-0906 QUEBEC INC. 75 RUE DUMAS HULL QUEBEC J8X 2N2 SINGLE SOURCE.	102513154 Original	ONTARIO/USA BORDER CROSSINGS:  *DRONG, JERRY, JOSEPH L12 C5 FLAM DUNDAS R1, ONTARIO L9H 5E1 GENERAL FREIGHT.	062699043 Original
*376973 ONTARIO LTD 10 DANSK CRT UNIT8 REXDALE, ONTARIO M9W 5T8 GENERAL FREIGHT.	039462989 Amend	NSL INC 2155 WILLOWCREEK RD PORTAGE INDIANA, USA 46368 GENERAL FREIGHT.	080165643 Original
*621908 ONTARIO INC L1 C18 GREY WALTON, ONTARIO N0K 1Z0 GENERAL FREIGHT.	079185177 Original	*VAN-ARNHEM, PETER, D 3436 MAYFIELD RD BRAMPTON R2, ONTARIO L6V 1A1 SINGLE SOURCE; GENERAL FREIGHT.	022773425 Original
*632580 ONTARIO LTD 90 SPARKS ST AP1000 OTTAWA, ONTARIO K1P 5T8 OWNER DRIVER, exempt from Public Interest Test.	086007455 Original	*565102 ONTARIO INC. 1515 LAKESHORE RD E APT 1205 MISSISSAUGA, ONTARIO L5E 3E2 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	102544259 Original
*707892 ONTARIO LTD 122 CENTRELL AVE GRIMSBY, ONTARIO L3M 4Y3 SINGLE SOURCE; GENERAL FREIGHT.	100873103 Original		

# **MOTOR VEHICLE TRANSPORT ACT, 1987 LOI DE 1987 SUR LES TRANSPORTS ROUTIERS**

## **INTRA-PROVINCIAL TRUCK APPLICATIONS:**

The following are applications for operating licences under Part III of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35. These applicants have been found to meet the fitness requirement in like manner to section 6 of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and the provincial transport board for Ontario proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test in like manner to Subsection 7(4) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64.

**NOTE:** A person who requests a public interest hearing must, within thirty-nine days of this publication, serve on the Ontario Highway Transport Board a document that makes out a written case to the Board that the granting of the operating authority applied for would be likely to have a significant detrimental effect on the public interest using the criteria set out in subsection 10(1) of the Truck Transportation Act, 1988, S.O. 1988, Chapter 64, and that the request is not frivolously made.

\* Indicates a person who has applied for licences under both Part II and Part III of the Motor Vehicle Transport Act, 1987.

The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:

**\*ACIER SOLAC LTEE** 085575946  
4444 STE CATHERINE OUEST  
WESTMOUNT QUE  
H3Z 1R2  
Original  
GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.

**\*C.H. SAWYER LTD.** 100251467  
L13 C6 TOWNSEND TWP  
WATERFORD R1, ONTARIO  
N0E 1Y0  
Original  
GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (12000)  
HALDIMAND-NORFOLK R.

**\*CANADIAN AMERICAN  
TRANSPORTATION C.A.T. INC.** 087901490  
89 ARMAND ST  
VALLEYFIELD QUEBEC  
J6S 4V5  
Amend  
TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21102) MISSISSAUGA C.

**\*CANADIAN NATIONAL  
TRANSPORTATION LTD** 031373452  
935 DE LA GAUCHETIERE WEST  
MONTREAL, QUEBEC  
H3B 2M9  
Amend  
GENERAL FREIGHT.

**\*CARGO DIRECT LTD** 102622518  
270 ESNA PARK DRIVE UNIT 13  
MARKHAM, ONTARIO  
L3R 1H3  
Original  
GENERAL FREIGHT; TANK.

**\*COPPOLA, ILARIO** 058583295  
1704 SILVERTHORN SQ  
PICKERING, ONTARIO  
L1V 5C4  
Original  
OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT; TANK.

**\*DASH SYSTEMS LIMITED** 086693094  
1015 WESTPORT CR  
MISSISSAUGA, ONTARIO  
L5T 1E8  
Amend  
HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21102) MISSISSAUGA C.

**\*DRONG, JERRY, JOSEPH** 062699043  
L12 C5 FLAM  
DUNDAS R1, ONTARIO  
L9H 5E1  
Original  
GENERAL FREIGHT.

**\*DURHAM SECURITY SERVICES  
(CANADA) LTD** 083708137  
99 KIRBY CRES  
WHITBY, ONTARIO  
L1N 5S1  
Original  
SINGLE SOURCE; GENERAL FREIGHT.

**\*DUTCHCAMP FARMS INC.** 102822798  
L10 C9 KINCARDINE TWP  
KINCARDINE RR5, ONTARIO  
N2Z 2X6  
Original  
SINGLE SOURCE; GENERAL FREIGHT.

**\*ENTREPRISES DE TRANSPORT I P S  
INC** 084471858  
460 4E AVENUE  
STE HELENE QUEBEC  
J0H 1M0  
Original  
SINGLE SOURCE; GENERAL FREIGHT.



<b>*GREY MAR TRANSPORT LTD</b> L23 C6 PEEL TSP ARTHUR R1, ONTARIO N0G 1A0 GENERAL FREIGHT; TANK.	<b>024493632</b> Amend	<b>*RAM CONTRACT CARRIERS LIMITED</b> 153 LAIRD AVE ESSEX, ONTARIO N8M 1S4 GENERAL FREIGHT.	<b>080308702</b> Original
<b>*IRELAND, WILLIAM, A</b> 338 MCEWAN AV WINDSOR, ONTARIO N9B 2E6 SINGLE SOURCE; GENERAL FREIGHT.	<b>078489102</b> Original	<b>*REGIS TRANSPORT LTD/ TRANSPORT REGIS LTEE</b> 317 ST-FRANCOIS-XAVIER DELSON QC J0L 1G0 SINGLE SOURCE; GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>102514126</b> Original
<b>*LA COMPAGNIE GERMAIN PROVENCHER LTEE</b> 8470 19TH AVE MONTREAL, QUEBEC H1J 7J3 GENERAL FREIGHT; TANK.	<b>085404973</b> Original	<b>*RYLANCE, KENNETH, R</b> L14 C2 NEWCASTLE R2, ONTARIO L0A 1H0 GENERAL FREIGHT.	<b>002969098</b> Amend
<b>*LESLIE O SMITH TRANSPORT LIMITED</b> 224 SOUTH SERVICE RD STONE CREEK, ONTARIO L8E 2N9 GENERAL FREIGHT.	<b>101905060</b> Original	<b>*SAGUENAY TRANSIT INC</b> 384 RUE SIMARD ST AMBROISE QUEBEC G0V 1R0 SINGLE SOURCE; GENERAL FREIGHT.	<b>093246733</b> Original
<b>*NOLAN, GERALD, N</b> L10 C3 BECKWITH SMITHS FALLS R6, ONTARIO K7A 4S7 GENERAL FREIGHT; TANK.	<b>025676803</b> Original	<b>*SALISBURY, JOHN, R</b> 601 CAMELOT DR OSHAWA, ONTARIO L1K 1K5 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>014561557</b> Original
<b>*NORTHERN ALLIED SUPPLY CO LTD</b> 352 RAILWAY ST PO BX90 TIMMINS, ONTARIO P4N 7C8 GENERAL FREIGHT; TANK.	<b>060432562</b> Original	<b>*SAMUEL METAL SERVICE LTD</b> 7314 44 ST BOX 3597 LEDUC ALBERTA T9E 6M3 GENERAL FREIGHT.	<b>082352099</b> Original
<b>*O'C LIQUID WASTE HAULERS OF ONTARIO LTD</b> 7130 PACIFIC CIR MISSISSAUGA, ONTARIO L4T 3B5 GENERAL FREIGHT; TANK.	<b>037282240</b> Original	<b>*SILVERTHORN, RODERICK</b> 405 WELLINGTON ST AP7 ST THOMAS, ONTARIO N5R 5T7 SINGLE SOURCE; GENERAL FREIGHT.	<b>049440815</b> Original
<b>*PELLETIER, ROGER, A</b> 424 ANN AVE TIMMINS, ONTARIO P4N 4V4 GENERAL FREIGHT.	<b>052841634</b> Original	<b>*SOTECH TRANSPORT TORONTO INC.</b> 5425 DIXIE ROAD STE16 MISSISSAUGA, ONTARIO L4W 1E6 SINGLE SOURCE.	<b>102700863</b> Original
<b>*QUIRION, CLEMENT</b> 1620 DES MERISIERS STE-CATHERINE QC J0L 1E0 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee only maintains a place or places of business in locations other than the Province of Ontario.	<b>102667106</b> Original	<b>*SPADA, GORDON, C</b> 641 BALMORAL DR BRAMALEA, ONTARIO L6T 1W8 GENERAL FREIGHT.	<b>053387781</b> Original



<b>*STUBBS, ROBERT, THOMAS</b> 10 ALLAN ST BX1342 THEDFORD, ONTARIO N0M 2N0 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT; TANK.	<b>041890948</b> Amend	<b>*2627-0264 QUEBEC INC.</b> 265 CR JONCAIRE ILE BIZARD QUEBEC H9C 2K2 SINGLE SOURCE; GENERAL FREIGHT.	<b>102833162</b> Original
<b>*VALLELUNGA, GIUSEPPE</b> 259 REGINA AV THUNDER BAY, ONTARIO P7B 5B4 GENERAL FREIGHT.	<b>018910071</b> Amend	<b>*2752-7860 QUEBEC INC.</b> 1122 RUE ST-PAUL ANCIENNE LORETTE QUEBEC G2E 1Y3 SINGLE SOURCE.	<b>102471299</b> Original
<b>*VAN-ARNHEM, PETER, D</b> 3436 MAYFIELD RD BRAMPTON R2, ONTARIO L6V 1A1 SINGLE SOURCE; GENERAL FREIGHT.	<b>022773425</b> Original	<b>*2753-0906 QUEBEC INC.</b> 75 RUE DUMAS HULL QUEBEC J8X 2N2 SINGLE SOURCE.	<b>102513154</b> Original
<b>*VAN-SOELEN, LAURIE, J</b> L9 C6 WEST LUTHER TP KENILWORTH R4, ONTARIO N0J 2E0 GENERAL FREIGHT.	<b>061404604</b> Original	<b>*376973 ONTARIO LTD</b> 10 DANSK CRT UNIT8 REXDALE, ONTARIO M9W 5T8 GENERAL FREIGHT.	<b>039462989</b> Amend
<b>*VAUGHAN, CECIL, L</b> 282 WELLINGTON ST ST THOMAS, ONTARIO N5R 2S8 GENERAL FREIGHT; TANK.	<b>030522986</b> Original	<b>*565102 ONTARIO INC.</b> 1515 LAKESHORE RD E APT 1205 MISSISSAUGA, ONTARIO L5E 3E2 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>102544259</b> Original
<b>*VENTURE EQUIPMENT LEASING INC.</b> 505 WILLIAMS DR SARNIA, ONTARIO N7T 7V8 SINGLE SOURCE.	<b>086225133</b> Original	<b>*621908 ONTARIO INC</b> L1 C18 GREY WALTON, ONTARIO N0K 1Z0 GENERAL FREIGHT.	<b>079185177</b> Original
<b>*WOODBURY TRUCKING INC.</b> L10-11 C4 BURFORD TWP BURFORD RR1, ONTARIO N0E 1A0 GENERAL FREIGHT.	<b>102769958</b> Original	<b>*632580 ONTARIO LTD</b> 90 SPARKS ST AP1000 OTTAWA, ONTARIO K1P 5T8 OWNER DRIVER, exempt from Public Interest Test.	<b>086007455</b> Original
<b>*168369 CANADA INC</b> 27 MOREL CP 813 EVAIN QUEBEC J0Z 1Y0 SINGLE SOURCE.	<b>101217712</b> Original	<b>*707892 ONTARIO LTD</b> 122 CENTRELL AVE GRIMSBY, ONTARIO L3M 4Y3 SINGLE SOURCE; GENERAL FREIGHT.	<b>100873103</b> Original
<b>*2436-9753 QUEBEC INC.</b> 2614 PLACE BERGERAC BOISBRIAND QUEBEC J7E 4H4 SINGLE SOURCE.	<b>100502795</b> Original	<b>*729618 ONTARIO LTD.</b> 600 MCMURRAY ROAD WATERLOO, ONTARIO N2V 1Y2 GENERAL FREIGHT.	<b>102507123</b> Original
<b>*2622-4121 QUEBEC INC.</b> 1645 OXFORD ST ST-LAURENT QUEBEC H4L 1B4 OWNER DRIVER, exempt from Public Interest Test.	<b>102512121</b> Original	<b>*897657 ONTARIO LIMITED</b> 356 BALSAM STREET SOUTH TIMMINS, ONTARIO P4N 2E7 SINGLE SOURCE; GENERAL FREIGHT.	<b>102826668</b> Original

## CORRIDOR APPLICATIONS:

NOTE: The Motor Vehicle Transport Act, 1987,  
Regulations SOR 1987-1026, section 9 pro-

vides that a corridor operation is exempt from the application of subsections 8(3) to (5) of the Act (public interest test).

The following applicants have applied for Authority to offer a transportation service through Ontario, provided there is no pickup or delivery in Ontario, utilizing the appropriate border crossings:

**ONTARIO/QUEBEC, ONTARIO/MANITOBA,  
ONTARIO/USA BORDER CROSSINGS:**

**ACIER SOLAC LTEE** 085575946  
4444 STE CATHERINE QUEST Original  
WESTMOUNT QUE  
H3Z 1R2  
GENERAL FREIGHT; HOUSEHOLD GOODS.

**CALCIUM CHLORIDE SALES INC.** 092697466  
713 WEST MAIN ST Amend  
GROVE CITY, PA, USA  
16127  
GENERAL FREIGHT; TANK.

**CANADIAN AMERICAN  
TRANSPORTATION C.A.T. INC.** 078901490  
89 ARMAND ST Amend  
VALLEYFIELD QUEBEC  
J6S 4V5  
GENERAL FREIGHT; TANK; HOUSEHOLD  
GOODS.

**CANADIAN NATIONAL  
TRANSPORTATION LTD** 031373452  
935 DE LA GAUCHETIERE WEST Amend  
MONTREAL, QUEBEC  
H3B 2M9  
GENERAL FREIGHT.

**CELADON TRUCKING SERVICES OF  
INDIANA INC.** 095538412  
2995 SOUTH HARDING ST Amend  
INDIANAPOLIS IN, USA  
46225  
GENERAL FREIGHT.

**DASH SYSTEMS LIMITED** 086693094  
1015 WESTPORT CR Amend  
MISSISSAUGA, ONTARIO  
L5T 1E8  
GENERAL FREIGHT; HOUSEHOLD GOODS.

**DURHAM SECURITY SERVICES  
(CANADA) LTD** 083708137  
99 KIRBY CRES Original  
WHITBY, ONTARIO  
L1N 5S1  
GENERAL FREIGHT.

**ENTREPRISES DE TRANSPORT I P S  
INC** 084471858  
460 4E AVENUE Original  
STE HELENE QUEBEC  
J0H 1M0  
GENERAL FREIGHT.

**GREY MAR TRANSPORT LTD** 024493632  
L23 C6 PEEL TSP Amend  
ARTHUR R1, ONTARIO  
N0G 1A0  
GENERAL FREIGHT; TANK.

**JOULE YACHT TRANSPORT INC.** 096582119  
12290 AUTOMOBILE BLVD Original  
CLEARWATER FLORIDA, USA  
34622  
GENERAL FREIGHT.

**LA COMPAGNIE GERMAIN  
PROVENCHER LTEE** 085404973  
8470 19TH AVE Original  
MONTREAL, QUEBEC  
H1J 7J3  
GENERAL FREIGHT; TANK.

**QUIRION, CLEMENT** 102667106  
1620 DES MERISIERS Original  
STE-CATHERINE QC  
J0L 1E0  
GENERAL FREIGHT; HOUSEHOLD GOODS.

**REDBIRD DEVELOPMENT INC.** 079975636  
1018 WHITLOCK RD Original  
ROCHESTER NEW YORK, USA  
14609  
GENERAL FREIGHT.

**REGIS TRANSPORT LTD/  
TRANSPORT REGIS LTEE** 102514126  
317 ST-FRANCOIS-XAVIER Original  
DELSON QC  
J0L 1G0  
GENERAL FREIGHT; TANK; HOUSEHOLD  
GOODS.

**SAMUEL METAL SERVICE LTD** 082352099  
7314 44 ST BOX 3597 Original  
LEDUC ALBERTA  
T9E 6M3  
GENERAL FREIGHT.

**SCHALLOCK, ALAN** 102546413  
ROUTE 1 BOX 25 Original  
FLOYD IOWA, USA  
50435  
GENERAL FREIGHT.

**SILVERTHORN, RODERICK** 049440815  
405 WELLINGTON ST AP7 Original  
ST THOMAS, ONTARIO  
N5R 5T7  
GENERAL FREIGHT.

**VAIL NORTHWEST INC** 098469991  
85331 HIGHWAY 99 SOUTH Original  
EUGENE OREGON, USA  
97405  
GENERAL FREIGHT.

<b>VALLELUNGA, GIUSEPPE</b> 259 REGINA AV THUNDER BAY, ONTARIO P7B 5B4 GENERAL FREIGHT.	<b>018910071</b> Amend	The following applicants have applied for Authority to offer a transportation service as detailed below between (00000) POINTS IN ONTARIO:	
<b>WOLTERS TRUCKING LTD</b> L14 C9 GOSF N COTTAM R1, ONTARIO N0R 1B0 GENERAL FREIGHT.	<b>034582396</b> Amend	<b>ASMUSSEN, PAUL, ROBERT</b> L22 C5 BLAN/BLEN TP DRUMBO R2, ONTARIO N0J 1G0 GENERAL FREIGHT.	<b>058015292</b> Original
<b>WOODBURY TRUCKING INC.</b> L10-11 C4 BURFORD TWP BURFORD RR1, ONTARIO N0E 1A0 GENERAL FREIGHT.	<b>102769958</b> Original	<b>BAILEY, ELDON, JOHN</b> 852 EDMOND ST HAWKESBURY, ONTARIO K6A 3E3 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>069573547</b> Original
<b>2627-0264 QUEBEC INC.</b> 265 CR JONCAIRE ILE BIZARD QUEBEC H9C 2K2 GENERAL FREIGHT.	<b>102833162</b> Original	<b>BECKER, LORNE, ROBERT</b> L3 C13 HAY DASHWOOD R1, ONTARIO N0M 1N0 GENERAL FREIGHT.	<b>050392620</b> Original
<b>376973 ONTARIO LTD</b> 10 DANSK CRT UNIT8 REXDALE, ONTARIO M9W 5T8 GENERAL FREIGHT.	<b>039462989</b> Amend	<b>BOB CAMPBELL FUELS LIMITED</b> L1 C4 TSP KINCARDINE BX 26 KINCARDINE, ONTARIO N2Z 2Y6 GENERAL FREIGHT; TANK.	<b>004149541</b> Original
<b>ONTARIO/QUEBEC, ONTARIO/USA BORDER CROSSINGS:</b>		<b>BOB REEVES TRUCK SERVICE LTD</b> 535 GLENGARRY CR FERGUS, ONTARIO N1M 2W7 GENERAL FREIGHT.	<b>038899286</b> Original
<b>J.P. NOONAN TRANSPORTATION INC.</b> 436 WEST ST BX400 WEST BRIDGEWATER MASS, USA 02379 GENERAL FREIGHT; TANK.	<b>102848624</b> Original	<b>CADOTTE, OSCAR, S</b> L-P4 C1 CHATHAM GORE TP WALLACEBURG R3, ONTARIO N8A 4K9 GENERAL FREIGHT.	<b>031343078</b> Original
<b>RAM CONTRACT CARRIERS LIMITED</b> 153 LAIRD AVE ESSEX, ONTARIO N8M 1S4 GENERAL FREIGHT.	<b>080308702</b> Original	<b>CANFIELD, GLEN, N</b> L12 C6 MELICK KENORA R1, ONTARIO P9N 3W7 GENERAL FREIGHT.	<b>031372756</b> Amend

## TRUCK TRANSPORTATION ACT, 1988 LOI DE 1988 SUR LE CAMIONNAGE

The following are applications for operating licences under the Truck Transportation Act, 1988, S.O. 1988, Chapter 64. These Applicants have been found to meet the fitness requirements pursuant to section 6 of that Act and the Registrar of Motor Vehicles proposes to issue the licences unless a person, within thirty days of this publication, serves on the Applicant and files with the Registrar of Motor Vehicles with the prescribed filing fee, a written request for a fitness hearing or a public interest test pursuant to subsection 7(4) of the Act.

<b>CARRINGTON, TERRANCE</b> 28 ATERNO DR HAMILTON, ONTARIO L9C 5S5 GENERAL FREIGHT.	<b>023672716</b> Original
<b>CHOMISKY, ROBERT, A</b> L33 C4 WHITBY R2, ONTARIO L1N 5R5 GENERAL FREIGHT.	<b>050769267</b> Original
<b>CHUTE CONSTRUCTION LIMITED</b> 99 JAMES AV BRANTFORD, ONTARIO N3S 6Y5 BULK.	<b>012169841</b> Original



<b>CORRIGAN, BASIL</b> L20 C10 MARA TP ORILLIA R7, ONTARIO L3V 6H7 GENERAL FREIGHT; TANK.	<b>062453786</b> Amend	<b>DUREPOS, YVON, L</b> 46 HWY-144 CHELMSFORD, ONTARIO P0M 1L0 GENERAL FREIGHT.	<b>024119797</b> Original
<b>CRAIG, JEFFREY, E</b> 15A FORESTER CR NEPEAN, ONTARIO K2H 8Y1 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>076791332</b> Original	<b>G &amp; W JELLY TRUCKING INC</b> L1 C2 HARRIS BX856 NEW LISKEARD R3, ONTARIO P0J 1P0 GENERAL FREIGHT.	<b>097298905</b> Original
<b>CUSHMAN, MICHAEL, A</b> 226 PRINCE ALBERT ST CENTRALIA, ONTARIO N0M 1K0 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>023909969</b> Original	<b>GPR CONSTRUCTION LTD</b> 341 HOPEWELL AVE TORONTO, ONTARIO M6E 2S1 BULK.	<b>092069068</b> Original
<b>DAHL, WARREN, S</b> L19 C13 WGWILL BX1671 BRADFORD, ONTARIO L3Z 2B9 GENERAL FREIGHT.	<b>067814874</b> Original	<b>GERVAIS, IVAN, O</b> 399 LAKEVIEW DR BX201 NORTH COBALT, ONTARIO P0J 1R0 GENERAL FREIGHT.	<b>001218791</b> Original
<b>DALESSANDRO, FILIPPO</b> 35 CORONATION CIR BRAMPTON, ONTARIO L6Z 4B1 GENERAL FREIGHT.	<b>035505352</b> Original	<b>GODDING, LLOYD, DOUGLAS</b> 413 MARLIN PRIV OTTAWA, ONTARIO K1G 2Y7 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>089847044</b> Original
<b>DAWSON, WILLIAM, A</b> 1 POTTER DR BURFORD, ONTARIO N0E 1A0 GENERAL FREIGHT.	<b>054845500</b> Original	<b>GORTER, DOREEN, ISABEL</b> 32 MAIN ST HILLSBURGH, ONTARIO N0B 1Z0 GENERAL FREIGHT; TANK; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (75000) WELLINGTON CO.	<b>036030689</b> Original
<b>DELEAVEY, EMERY, E</b> 103 SLINGER AVENUE STONEY CREEK, ONTARIO L8G 3X4 GENERAL FREIGHT.	<b>039423337</b> Original	<b>GRAHAM, IAN, ROY</b> L13 C8 DARLINGTON TP HSE2502 BOWMANVILLE, ONTARIO L1C 3K2 GENERAL FREIGHT.	<b>085811020</b> Original
<b>DITNER, RICHARD, E</b> 91 SIMCOE ST EXETER, ONTARIO N0M 1S1 SINGLE SOURCE; GENERAL FREIGHT; TANK.	<b>024041965</b> Original	<b>GRECO, SALVATORE, G</b> 3057 HAROLD SHEARD MISSISSAUGA, ONTARIO L4T 1V4 GENERAL FREIGHT.	<b>059228793</b> Original
<b>DONALDSON, DONALD</b> 94 SPRUCE AV BX98 CARDIFF, ONTARIO K0L 1M0 BULK.	<b>047224999</b> Amend	<b>GROVER, RONALD, IVAN</b> L7 C1 BLEN TWP PRINCETON R1, ONTARIO N0J 1V0 GENERAL FREIGHT.	<b>036088341</b> Original
<b>DONOSO, MANUEL, A</b> 2871 RICHMOND RD AP907 OTTAWA, ONTARIO K2B 8M5 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>012481758</b> Original	<b>GUY, GRANT, LEROY/GUY, WATSON, JAMES</b> L9 C12 RALEIGH MERLIN R5, ONTARIO N0P 1W0 GENERAL FREIGHT.	<b>001355355</b> Original



<b>GUY, MELVIN, EARL</b> L14 C13 RAL MERLIN R2, ONTARIO N0P 1W0 GENERAL FREIGHT.	<b>039964479</b> Original	<b>NOLAN, MICHAEL, L</b> 199 UPPER CANADA DR APT229 WILLOWDALE, ONTARIO M2P 1T2 GENERAL FREIGHT.	<b>052704086</b> Original
<b>JAMIESON, G-KEVIN</b> 370 SHERWOOD AV BELMONT, ONTARIO N0L 1B0 SINGLE SOURCE; GENERAL FREIGHT.	<b>066336038</b> Original	<b>NUXOLL, WALTER, W</b> L4 C1 DUNN DUNNVILLE R9, ONTARIO N1A 2W8 GENERAL FREIGHT.	<b>029553204</b> Original
<b>JOHN ZACK &amp; SONS LTD</b> L19 C6 MAIDSTONE TP ESSEX R3, ONTARIO N8M 2X7 GENERAL FREIGHT.	<b>028704302</b> Original	<b>O'NEILL, STEPHEN, E</b> 231 ALGONQUIN DR HURON PARK, ONTARIO N0M 1Y0 GENERAL FREIGHT.	<b>067313324</b> Original
<b>L A JUNKIN TRUCKING LTD</b> PT 7 FR RGE SOMERVILLE TP FENELON FALLS R1, ONTARIO K0M 1N0 GENERAL FREIGHT.	<b>032749304</b> Amend	<b>O'ROURKE, JAMES, MARTIN</b> 320 DARLINGTON CRESC NEWMARKET (YORK), ONTARIO L3Y 6N4 GENERAL FREIGHT.	<b>033449410</b> Original
<b>LEBLANC, J,J, ANDRE</b> 3000 NAVAN RD BX 201 GLOUCESTER RR9, ONTARIO K1G 3N5 GENERAL FREIGHT; TANK.	<b>069676180</b> Original	<b>OSWEGO RENTALS &amp; ENTERPRISES LTD</b> L16 C2 CANBORO CANFIELD R2, ONTARIO N0A 1C0 GENERAL FREIGHT.	<b>033457145</b> Original
<b>LINTON ROBINSON'S HAULAGE (ORILLIA) LTD</b> 19 GEORGE ST ORILLIA, ONTARIO L3V 2V1 GENERAL FREIGHT.	<b>029019068</b> Amend	<b>PACHECO, MICHAEL, L</b> 46 CORONATION CIR BRAMPTON, ONTARIO L6Z 2N7 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21101) BRAMPTON C.	<b>014161691</b> Original
<b>MYERS, PAUL, E</b> L20 C4 BLAN BLEN DRUMBO R2, ONTARIO N0J 1G0 GENERAL FREIGHT.	<b>052651328</b> Original	<b>PEDERSEN, KAJ, B</b> BOX1291 PT L34 C7 UXBRIDGE TP UXBRIDGE R3, ONTARIO L0C 1K0 GENERAL FREIGHT.	<b>048975191</b> Amend
<b>NAGRA, SUKHWINDERJIT, S</b> 39 DUTCH CRES BRAMPTON, ONTARIO L6Y 3W6 SINGLE SOURCE; GENERAL FREIGHT.	<b>093643253</b> Original	<b>PEGG, JAMES, DAWAYN</b> L8 HWY-48 BX247 MOUNT ALBERT, ONTARIO L0G 1M0 GENERAL FREIGHT.	<b>033533460</b> Amend
<b>NEUFEGLISE, ELIZABETH</b> L17 C1 CARADOC MOUNT BRYDGES R1, ONTARIO N0L 1W0 GENERAL FREIGHT.	<b>041093529</b> Original	<b>PEREIRA, FULGENCIO, B</b> 125 WELLINGTON ST N AP514 HAMILTON, ONTARIO L8R 3J4 BULK.	<b>041267208</b> Original
<b>NEVILLE, DONALD, S</b> 58 PAUL ST ST THOMAS, ONTARIO N5R 1T3 GENERAL FREIGHT; TANK.	<b>033372997</b> Original	<b>PERRY, RONALD, LESTER</b> 2 PEDEN BLVD BROCKVILLE, ONTARIO K6V 3J9 GENERAL FREIGHT.	<b>010387467</b> Amend

<b>RAMALHO, EDWARD, M</b> 296 TULIP CRES ORLEANS, ONTARIO K1E 2B1 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT.	<b>045264584</b> Original	<b>STANLEY, OWEN</b> 47 ROUSE AV CAMBRIDGE, ONTARIO N1R 4M6 GENERAL FREIGHT.	<b>010941618</b> Original
<b>RHODY, FREDERICK, E</b> L26 C7 BRANT ELMWOOD R1, ONTARIO N0G 1S0 GENERAL FREIGHT.	<b>029874061</b> Original	<b>STITT, JOEL, S</b> 1275 ALDRIDGE CR BURLINGTON, ONTARIO L7M 1C5 GENERAL FREIGHT.	<b>049589370</b> Original
<b>SAMUELS, HERALDO, E</b> 3765 SHEPPARD AVE E AP125 SCARBOROUGH, ONTARIO M1T 3R7 GENERAL FREIGHT.	<b>060899592</b> Original	<b>SULLIVAN, KENNETH, H</b> 70 STOKES CRES KANATA, ONTARIO K2L 2Z4 TANK.	<b>018731382</b> Original
<b>SGOVIO, ANGELO</b> 105 ELMWOOD RD AP5 OAKVILLE, ONTARIO L6K 3A2 BULK.	<b>037815116</b> Original	<b>SURTEES, ARNOLD, S</b> L21 C13 WATT TP UTTERSON R1, ONTARIO P0B 1M0 GENERAL FREIGHT.	<b>068603964</b> Original
<b>SHAW, RONALD, D</b> L21 C2 KING TWP KING CITY R3, ONTARIO L0G 1K0 GENERAL FREIGHT.	<b>060993408</b> Original	<b>T.A. STEWART &amp; SON CONTRACTING LIMITED</b> 251 MCNABB STREET BX522 SOUTHAMPTON, ONTARIO N0H 2L0 GENERAL FREIGHT.	<b>097758059</b> Original
<b>SHIRE, DONAVON, C</b> 2216 FIELDVIEW DR CAVAN R2, ONTARIO L0A 1C0 GENERAL FREIGHT.	<b>006955301</b> Original	<b>THOMPSON, ROBERT, G</b> 1215 KINGSTON AVE OTTAWA, ONTARIO K1Z 8K7 SINGLE SOURCE; GENERAL FREIGHT.	<b>061285162</b> Original
<b>SID WILES HAULAGE LTD</b> 4 ORMA DR ORILLIA, ONTARIO L3V 4J8 GENERAL FREIGHT.	<b>086531007</b> Amend	<b>TONY AHERNE ENTERPRISES INC</b> 893 COSBURN AVE TORONTO, ONTARIO M4C 2W5 GENERAL FREIGHT.	<b>076822085</b> Original
<b>SKIPPER, JOHN, DOUGLAS</b> L1 C8 TILBURY E MERLIN R6, ONTARIO N0P 1W0 GENERAL FREIGHT.	<b>010854596</b> Amend	<b>VANCE, LORNE, KEITH</b> NPTL17 C3 SARAWAK TP OWEN SOUND R2, ONTARIO N4K 5N4 GENERAL FREIGHT.	<b>011192152</b> Amend
<b>SOL'S DELIVERY SERVICE LTD</b> 689 WARDEN AV UN2 SCARBOROUGH, ONTARIO M1L 3Z7 GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (01000) METROPOLITAN TORONTO R.	<b>049516814</b> Amend	<b>VANDERPOL, A-ROSS</b> 34 BARRETT CR BARRIE, ONTARIO L4N 5C8 GENERAL FREIGHT; TANK.	<b>042083884</b> Original
<b>SPEERS LIVESTOCK LIMITED</b> L21 W/H C4 CALEDON TP CALEDON R1, ONTARIO L0N 1C0 GENERAL FREIGHT.	<b>087617949</b> Original	<b>W.E.C. HAULAGE INC.</b> 223 DEAN PARK ROAD SCARBOROUGH, ONTARIO M1B 3L8 GENERAL FREIGHT.	<b>102568269</b> Original
		<b>WALKER, PAUL, K</b> L29 C3 EAST LUTHER TP GRAND VALLEY R3, ONTARIO L0N 1G0 GENERAL FREIGHT.	<b>022849669</b> Original

<b>WALTON, GORDON</b> L10 C3 TOWN OF HALD CAYUGA R1, ONTARIO N0A 1E0 GENERAL FREIGHT.	<b>019001278</b> <b>Original</b>	<b>WILSON, WINSTON, B</b> 7707 DARCEL AV AP24 MISSISSAUGA, ONTARIO L4T 3W9 GENERAL FREIGHT.	<b>065453884</b> <b>Original</b>
<b>WARD, WARREN, E</b> L12 C4 E CALEDON CALEDON EAST R2, ONTARIO L0N 1E0 GENERAL FREIGHT.	<b>034450941</b> <b>Original</b>	<b>WONNACOTT CONSTRUCTION LTD</b> 584 CRUMLIN SIDEROAD LONDON, ONTARIO N5V 1S1 GENERAL FREIGHT.	<b>034585534</b> <b>Amend</b>
<b>WATERS, J-REYNOLD</b> 2145 MILLWAY GATE MISSISSAUGA, ONTARIO L5L 1R2 GENERAL FREIGHT.	<b>022877748</b> <b>Original</b>	<b>WOOD, GERALD, C</b> L4 C10 FENELON DUNSFORD R2, ONTARIO K0M 1L0 GENERAL FREIGHT.	<b>046169437</b> <b>Original</b>
<b>WEATHERALL, J-DALE</b> L38 C6 NOTT TP BX2068 COLLINGWOOD, ONTARIO L9Y 3Z1 GENERAL FREIGHT.	<b>030611608</b> <b>Original</b>	<b>WOOD, JAMES, E</b> 153 CENTRAL PK N OSHAWA, ONTARIO L1G 5Y6 GENERAL FREIGHT.	<b>076040850</b> <b>Original</b>
<b>WEAVER, CLINTON, U</b> L11 C9 OPS TP REABORO, ONTARIO K0L 2X0 GENERAL FREIGHT.	<b>057639390</b> <b>Original</b>	<b>WOODS, ROBERT, STEWART</b> 96 PINE ST W NEW LISKEARD, ONTARIO P0J 1P0 GENERAL FREIGHT.	<b>050039098</b> <b>Amend</b>
<b>WEIR, MICHAEL, E</b> 6 JARDINE CR BX416 CREEMORE, ONTARIO L0M 1G0 GENERAL FREIGHT.	<b>065372297</b> <b>Original</b>	<b>WOOLLEY, DALE, H</b> L20 C10 SW OXFORD TP BROWNSVILLE R1, ONTARIO N0L 1C0 GENERAL FREIGHT.	<b>011431179</b> <b>Original</b>
<b>WELLS, NORMAN, KENNETH</b> L34 C5 NOTTAWASAGA TP STAYNER R4, ONTARIO L0M 1S0 GENERAL FREIGHT.	<b>068265798</b> <b>Original</b>	<b>YUNGBLUT, DOUGLAS, G</b> L14 C6 WALLACE TP GOWANSTOWN R1, ONTARIO N0G 1Y0 GENERAL FREIGHT.	<b>015327933</b> <b>Original</b>
<b>WESTCOTT, S-GEORGE</b> 326 KING ST BX162 PORCUPINE, ONTARIO P0N 1C0 GENERAL FREIGHT.	<b>077510690</b> <b>Original</b>	<b>526383 ONTARIO LIMITED</b> 1048 TOY AVE STE-102 PICKERING, ONTARIO L1W 3P1 GENERAL FREIGHT.	<b>067999145</b> <b>Original</b>
<b>WEVER, CHRISTOPHER, I</b> 110 GRISELDA CR BRAMPTON, ONTARIO L6S 1M3 OWNER DRIVER, exempt from Public Interest Test; GENERAL FREIGHT; HOUSEHOLD GOODS, provided that the licensee has a place or places of business only at: (21101) BRAMPTON C.	<b>030640733</b> <b>Original</b>	<b>635216 ONTARIO LTD</b> L2 C2 CLARENCE ST PASCHAL DE BAYLON, ONTARIO K0A 3N0 BULK.	<b>079758630</b> <b>Original</b>
<b>WILSON, PETER, N</b> L29 C14 SMITH TP LAKEFIELD R3, ONTARIO K0L 2H0 BULK.	<b>011396462</b> <b>Original</b>	<b>754644 ONTARIO LTD</b> 1928 EAGLE ST CAMBRIDGE, ONTARIO N3H 4R7 GENERAL FREIGHT; TANK.	<b>096490876</b> <b>Original</b>
		<b>894558 ONTARIO INC.</b> L26 C7 PUSLINCH TWP PUSLINCH RR3, ONTARIO N0B 2J0 GENERAL FREIGHT.	<b>102699073</b> <b>Original</b>



**899100 ONTARIO INC** 102285337  
 LOTS1-32 BLK4 N35 ZEALAND TWP **Original**  
 WABIGOON, ONTARIO  
 POV 2W0  
 GENERAL FREIGHT.

Michael T. Curtin,  
 Manager.

## MOTOR VEHICLE TRANSPORT ACT, 1987

### PUBLIC VEHICLES ACT

#### BUS APPLICATIONS:

The following applications for an operating licence under Part I of the Motor Vehicle Transport Act, 1987, S.C. 1987, Chapter 35, or the Public Vehicles Act R.S.O. 1980, Chapter 425 is published pursuant to Section 8, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board Act, R.S.O. 1980, Chapter 338. Section 8 provides that the Board may dispose of this application summarily if no objection is served and filed in the prescribed manner within twenty-nine days of this publication.

#### MOTOR VEHICLE TRANSPORT ACT, 1987, PART I APPLICATION:

**Clyde's Charter Bus Service, Inc.** 44376  
 (o/a GUNTHER'S CHARTERS)  
 7474 Shipley Avenue  
 Hanover, Maryland  
 U.S.A. 21076

applies for an extra-provincial operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the United States of America from the Ontario/U.S.A. border crossings:

- (a) to points in Ontario and return with the same passengers on the same chartered trip to point of origin;
- (b) between the Ontario/Manitoba, Ontario/Quebec, Ontario/U.S.A. border crossings in transit through the Province of Ontario."

**Crystal Coast Tours, Inc.** 44375  
 1010 Spring Garden Road  
 New Bern, North Carolina  
 U.S.A. 28562

applies for an extra-provincial operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the United States of America from the Ontario/U.S.A. border crossings to points in the Province of Ontario and the return of the same passengers on the same chartered trip to point of origin."

**Autobus R. Pouliot Inc.** 44336  
 150 Place Riviere  
 Waterville, Quebec  
 JOB 3H0

applies for an extra-provincial operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the Province of Quebec from the Ontario/Quebec border to points in Ontario and return on the same chartered trip with the same passengers to point of origin."

**Saskatchewan Transportation Company** 44373  
 2041 Hamilton Street  
 Regina, Saskatchewan  
 S4P 2E2

applies for an extra-provincial operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the Province of Saskatchewan from the Ontario/Manitoba border crossings to points in Ontario and return of the same passengers on the same chartered trip to point of origin."

**778543 Ontario Inc.** 43494-G  
 (o/a SURPRENANT SERVICE D'AUTOBUS)  
 18 Cécile Street  
 P.O. Box 1073  
 Embrun, Ontario  
 K0A 1W0

applies for an extra-provincial operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the Police Village of Embrun to the Ontario/Quebec border for furtherance and from such points on the same chartered trip and the return of same passengers to point of origin."

**43494-J**  
 also applies for an extension to extra-provincial operating licence X-1397, as follows:

"For the transportation of passengers who are students, staff and chaperones under the jurisdiction of the Prescott-Russell County Roman Catholic Separate School Board on a chartered trip from points in the County of Russell to the Ontario/Quebec border for furtherance and from such points on the same chartered trip and the return of same passengers to point of origin."

PROVIDED that:

1. chartered trips be restricted to school purposes only and only for schools under the jurisdiction of the aforesaid School Board;
2. such chartered trip authority shall terminate automatically on the 31st day of December of any year if on that date a valid contract for home/school route service is not in effect with the said School Board;



3. the licensee be restricted to the use of school buses as defined in Section 151 (c) of the Highway Traffic Act, R.S.O. 1980, Chapter 198."

1980, chapter 425 with a maximum seating capacity of nine (9) passengers exclusive of the driver."

#### TARIFF OF TOLLS:

Flat Rate - \$10.00 per person

## PUBLIC VEHICLES ACT

### BUS APPLICATION:

The following applications for an operating licence under the Public Vehicles Act R.S.O. 1980, Chapter 425 is published pursuant to Section 8, R.R.O. 1980, Regulation 716 under the Ontario Highway Transport Board Act, R.S.O. 1980, Chapter 338. Section 8 provides that the Board may dispose of this application summarily if no objection is served and filed in the prescribed manner within twenty-nine days of this publication.

### PUBLIC VEHICLES ACT APPLICATION:

**Minaki Lodge Resort Four Season Hotel** 44370  
1165 Leslie Street  
Toronto, Ontario  
M3C 2K8

applies for a public vehicle operating licence, as follows:

"For the transportation of passengers on a chartered trip to and from Minaki Lodge Resort located in the Local Service Board of Minaki in the District of Kenora.

PROVIDED that the licensee be restricted to two (2) Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of section 9 of Regulation 888 under the Public Vehicles Act, R.S.O.

**772314 Ontario Inc.**  
(o/a Sookram Bus Lines)  
149 Charlebois Street  
Azilda, Ontario  
P0M 1B0

44368

applies for an extension to public vehicle operating licence PV-2411, as follows:

#### Delete:

"For the carriage of passengers between Onaping Falls and the City of Sudbury via King's Highway No. 144.

PROVIDED that charter trips from the City of Sudbury be prohibited."

#### Substitute:

"For the carriage of passengers between Onaping Falls and the City of Sudbury via King's Highway No. 144 and Regional Road 35."

#### Explanatory Note:

Not to form part of the licence. Highway 144 from the Municipal Boundaries of the City of Sudbury to Regional Road 15 has been changed to the designation of Regional Road 35. Highway 144 now turns south at Regional Road 15 and proceeds south until it intersects with Highway 17 and is sometimes referred to as the North-West Bypass."

#### TARIFF OF TOLLS:



TRANSIT  
ONTARIO

## TARIFF OF TOLLS

TO BE IN FORCE FROM  
JANUARY 1, 1974  
IN FORCE OF THE  
PUBLIC VEHICLE SERVICE ACT

SECTION 2 OF THE PUBLIC VEHICLE ACT SUBMITTED HERewith IN  
EVIDENCE FOR THE APPROVAL OF THE MINISTER A TARIFF OF TOLLS PROPOSED FOR  
A PUBLIC VEHICLE SERVICE OPERATED

BY 772314 ONTARIO INC. O/A Sookran Bus Lines

FROM Leveck AND Sudbury  
TOLLS EFFECTIVE DATE Already in effect SIGNATURE *D. Sookran*

TO	FROM	LEVECK	DOWLING	CHELMSFORD	AZILDA	SUDBURY
LEVECK	50 km	S 1.25 R 2.50	S 2.25 R 4.50	S 2.75 R 5.50	S 3.75 R 7.50	
DOWLING	35 km		S 1.25 R 2.50	S 1.75 R 3.50	S 2.75 R 5.50	
CHELMSFORD	25 km			S 1.25 R 2.50	S 2.00 R 4.00	
AZILDA	15 km				S 1.75 R 3.50	
SPECIAL FARES						
Children under 5 years - free						
Children between 6 to 12 - half fare						
Ten Ride Passes: From Cost to Sudbury						
Azilda \$ 15.00						
Chelmsford 17.00						
Dowling 23.00						
Leveck 30.00						

**778543 Ontario Inc.****43494-H**

(o/a SURPRENANT SERVICE D'AUTOBUS)

18 Cécile Street

P.O. Box 1073

Embrun, Ontario

K0A 1W0

applies for a public vehicle operating licence, as follows:

"For the transportation of passengers on a chartered trip from points in the Police Village of Embrun."

**TARIFF OF TOLLS:**

.91¢ km

\$11.50 waiting time

Minimum: \$50.00

**43494-K**

also applies for an extension to public vehicle operating licence PV-3948, as follows:

"For the transportation of passengers who are students, staff or chaperones under the jurisdiction of the Prescott-Russell County Roman Catholic Separate School Board on chartered trips from points in the County of Prescott-Russell.

**PROVIDED that:**

1. chartered trips be restricted to school purposes only and only for schools under the jurisdiction of the aforesaid School Board;
2. such chartered trip authority shall terminate automatically on the 31st day of December of any year if on that date a valid contract for home/school route service is not in effect with the said School Board;
3. each chartered trip must be authorized in writing by the School Board or schools involved in the charter trip;
4. that the licensee be restricted to the use of school buses as defined in Section 151(c) of the Highway Traffic Act, R.S.O. 1980, Chapter 198."

**TARIFF OF TOLLS:**

.91¢ km

\$11.50 waiting time

Minimum: \$55.00

**LOI DE 1987 SUR LES TRANSPORT ROUTIERS****LOI SUR LES VEHICULES DE TRANSPORT EN COMMUN****DEMANDES D'EXPLOITATION D'UN AUTOBUS :**

Le demande suivante des licences d'exploitation ont été présentées en vertu de la partie 1 de la Loi de 1987 sur les transports routiers, L.C. de 1987, chapitre 35 ou de la Loi sur les véhicules de transport en commun, L.R.O. de 1980, chapitre 425 et sont publiées en vertu de l'article 8, R.R.O. de 1980, règlement 716 pris en application de la Loi sur la Commission des transports routiers de l'Ontario, L.R.O. de 1980, chapitre 338. L'article 8 stipule que la Commission peut traiter ces demandes sans autre forme de procès si aucune objection n'est soulevée et déposée de la manière prescrite dans les vingt-neuf jours suivant la présente publication.

**DEMANDE PRÉSENTÉE EN VERTU DE LA PARTIE I DE LA LOI DE 1987 SUR LES TRANSPORTS ROUTIERS :****Crystal Coast Tours, Inc.****44375**

1010 Spring Garden Road  
New Bern, North Carolina  
U.S.A. 28562

présente une demande de licence d'exploitation extra-provinciale aux fins suivant :

"Pour le transport nolisé de passagers aller-retour à partir de divers lieux situés dans les états unis à partir de la frontière Ontario/É.-U. à divers lieux situés dans Ontario et pour le transport entre lesdits et le point de départ."

**Clyde's Charter Bus Service, Inc.****44376**

(o/a GUNTHER'S CHARTERS)  
7474 Shipley Avenue  
Hanover, Maryland  
U.S.A. 21076

présente une demande de licence d'exploitation extra-provinciale aux fins suivants :

"Pour le transport nolisé de passagers aller-retour à partir de divers lieux situés dans le états-unis à partir de la frontière Ontario/É.-U.

(a) a divers lieux situés dans Ontario;

(b) entre les frontières Ontario/E.U., Ontario/Manitoba, Ontario/Quebec en transit à travers la province d'Ontario

et pour le transport entre lesdits et le point de départ."

**Autobus R. Pouliot Inc.****44336**

150 Place Rivière  
Waterville, Quebec  
J0B 3H0

présente une demande de licence d'exploitation d'extra-provinciale aux fins suivants :

"Pour le transport nolisé de passagers aller-retour à partir de divers lieux situés dans le Province de Québec à partir de la frontière Ontario/Québec à divers lieux situés dans Ontario et pour le transport entre lesdits lieux et le point de départ."

**Saskatchewan Transportation Company 44373**  
2041 Hamilton Street  
Regina, Saskatchewan  
S4P 2E2

présente une demande de licence d'exploitation extra-provinciale aux fins suivants :

"Pour le transport nolisé de passagers aller-retour à partir de divers lieux situés dans le Province of Saskatchewan à partir de la frontière Ontario/Manitoba à divers lieux situé dans Ontario et pour le transport entre lesdits et le point de départ."

**778543 Ontario Inc. 43494-G**  
(o/a SURPRENANT SERVICE D'AUTOBUS)  
18 Cécile Street  
P.O. Box 1073  
Embrun, Ontario  
K0A 1W0

présent une demande de permis d'exploitation extra-provinciale aux fins suivants :

"Pour le transport nolisé aller-retour de passagers à partir de divers lieux situé dans le Village Partiellement autonome de Embrun à partir de la frontière Ontario/Québec pour l'avancement et pour le transport entre lesdits et le point de départ."

**43494-J**

présent une demande d'extension de permis d'exploitation extra-provinciale X-1397 aux fins suivants :

"Pour le transport nolisé de passagers et de personnel et chaperons relevant aller-retour de la juridiction de la Commission Scolaire Séparée Catholiques du Prescott-Russell à partir de divers lieux situés dans le County of Prescott-Russell à la frontière Ontario/Québec pour l'avancement et pour le transport entre lesdits et le point de départ."

Sous réserve :

1. Les voyages nolisés ne soient effectués qu'à des fins scolaires pour les écoles relevant de la juridiction desdits conseil scolaire;
2. L'autorisation conférée pour ces voyages nolisés prenne fin le 31<sup>e</sup> jour de décembre de l'année si à cette date, aucun contrat valide pour le transport entre le domicile et l'école n'a été signé pas ledit conseil scolaire;

3. Chaque véhicule peut être un autobus scolaire au sens de code de la route de 1980, chapitre 198, l'article 151(c)."

## LOI SUR LES VEHICULE DE TRANSPORT EN COMMUN

### DEMANDE D'EXPLOITATION D'UN AUTOBUS :

Le demande suivantes de permis d'exploitation ont été présentées en vertu de la Loi sur le véhicule de transport en commun, L.R.O. de 1980, chapitre 425 et est publiées en vertu de l'article 8, R.R.O. de 1980, règlement 716 pris en application de la Loi sur la Commission des transports routiers de l'Ontario, L.R.O. de 1980, chapitre 338. L'article 8 stipule que la Commission peut traiter ce demande sans autre forme de procès si aucune objection n'est soulevée et déposée de la manière prescrite dans les vingt-neuf jours suivant la présente publication.

**Minaki Lodge Resort Four Season Hotel 44370**  
1165 Leslie Street  
Tornoto, Ontario  
M3C 2K8

présent une demande de permis d'exploitation d'un véhicule de transport en commun aux fins suivants :

"Pour le transport nolisé de passagers à ou a partir de Minaki Lodge Resort situé dans régie locale de services publics de Minaki dans le District de Kenora.

Sous réserve que le titulaire ne soit autorisé de conduire plus que deux véhicule de transport en commun de catégorie "D" tels que définis à l'alinéa a) iv) du paragraphe 1, article 9 de règlement 888 pris en application de la loi sur les véhicules de transport en commun, L.R.O. de 1980, chapitre 425 et pouvant transporter au plus 9 passagers assis, en sus de conducteur.

### TARIF :

Taux uniforme - 10,00 \$ chaque personne

**772314 Ontario Inc. 44368**  
(o/a Sookram Bus Lines)  
149 Charlebois Street  
Azilda, Ontario  
P0M 1B0

présent une demande d'exploitation de véhicule de transport en commun PV-2411 aux fins suivants :

### Supprimer :

"Pour le transport de passagers entre Onaping Fall et le cité de Sudbury via King's Highway No. 144.

Sous réserve que le voyages nolisés à partir de le cité de Sudbury soient interdit."

### Et Remplacer Par :

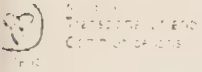
"Pour le transport de passagers entre Onaping Falls et le cité de Sudbury via King's Highway No. 144 and Regional Road 35."



**Note Explicatif:**

"Ne forme pas une partie de cette permis. Highway 144 a partir de limite municipal de le cité de Sudbury à rue Regionale 15 a changé a Regional Road /35. Highway 144 détourner sud à Regional

Road 15 et produit jus'que a carrefour Highway 17 tantôt connu a North-West Bypass."

**TARIF:****TARIFF OF TOLLS**

MINISTRY OF TRANSPORTATION AND COMMUNICATIONS  
ONTARIO  
TOLLS  
TOLLS  
TOLLS

FOR THE PURPOSES OF THE PUBLIC VEHICLE ACT, THE TOLLS HEREIN ARE  
IMPOSED FOR THE APPROVAL OF THE MINISTERS A TARIFF OF TOLLS PROPOSED FOR  
PUBLIC VEHICLE SERVICE OPERATED

By 772314 ONTARIO INC. O/A Sudburt Bus Lines

FROM Levack AND Sudbury  
TOLLS EFFECTIVE DATE Already in effect SIGNATURE D. R. R. R.

TO	FROM	DISTANCE	LEVACK	DOWLING	CHELMSFORD	AZILDA	SUDBURY
WACK	50 km		S 1.25 R 2.50	S 2.25 R 4.50	S 2.75 R 5.50	S 3.75 R 7.50	
DLING	35 km			S 1.25 R 2.50	S 1.75 R 3.50	S 2.75 R 5.50	
ELMSFORD	25 km				S 1.25 R 2.50	S 2.00 R 4.00	
ILDA	15 km					S 1.75 R 3.50	
<b>SPECIAL FARES</b>							
Children under 5 years - free							
Children between 6 to 12 - half fare							
Ten Ride Passes: From <u>Cost to Sudbury</u>							
Azilda \$ 15.00							
Chelmsford 17.00							
Dowling 23.00							
Levack 30.00							

**778543 Ontario Inc.**

(o/a SURPRENANT SERVICE D'AUTOBUS)

18 Cécile Street

P.O. Box 1073

Embrun, Ontario

K0A 1W0

présent une demande de permis d'exploitation d'un véhicule de transport en commun aux fins suivants :

"Pour le transport nolisé de passagers à partir de divers lieux situé dans le Village Partiellement autonome de Embrun."

**TARIF :**

.91¢ km

11,50 \$ l'heure d'attente

Prix moyen: 50\$

**43494-H**

Sous Réserve :

1. les voyages nolisés ne soient effectués qu'à des fins scolaires pas les écoles relevant de la juridiction desdits conseil scolaire;
2. l'autorisation conférée pour ces voyages nolisés prenne fin le 31<sup>e</sup> jour de décembre de l'année à cette date, aucun contrat valide pour le transport entre le domicile et l'école n'ait été signé pas lesdits conseil scolaire;
3. chaque voyage nolisé ait été autorisé par écrit par les écoles et le commission scolaire concerné;
4. chaque véhicule peut être un autobus scolaire au sens de code de la route de 1980, chapitre 198, l'article 151(c)."

**43494-K**

présent une demande d'extension du permis d'exploitation de véhicule de transport en commun PV-3948 aux fins suivants:

"Pour le transport nolisé de passagers et de personnel et chaperons relevant de la juridiction de la Commission Scolaire Séparée Catholiques du Prescott-Russell.

**TARIF :**

.91¢ km

11,50 \$ l'heure d'attente

Prix moyen: 55\$

Felix D'Mello,  
Secretary of the Board.

## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Certificates of Incorporation/Certificats de constitution

NOTICE IS HEREBY GIVEN that a certificate of incorporation under the *Business Corporations Act* 1982 has been endorsed:

Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
A & L CARIBBEAN FOOD MART CO. INC.	905931	July	26, 1990	Scarborough
A AND S MOBILE SERVICE AND REPAIR LTD. ....	899364	July	12, 1990	Sutton West
A.J. CHANDLER & ASSOCIATES LTD. ....	906230	July	27, 1990	Willowdale
A.O.C. COMPANY LTD. ....	906759	Aug.	1, 1990	Toronto
ABM MACHINE FABRICATIONS INC. ....	900962	July	31, 1990	Kitchener
ABUMA MANUFACTURING LIMITED ....	895798	Aug.	1, 1990	Mount Brydges
ACCEL TRAVEL INC. ....	906349	July	30, 1990	Toronto
ACCUMACH CORP. ....	900052	July	26, 1990	Cambridge
ACE PRODUCTIVITY IMPROVERS INC. ....	905982	July	27, 1990	Mississauga
ACROSS CANADA FINANCIAL RESOURCES LTD. ....	906666	July	31, 1990	Toronto
ACTIVATE CORP. ....	898603	July	30, 1990	Gloucester
ACUTY INVESTMENT MANAGEMENT INC. ....	905674	July	24, 1990	Toronto
ADVANTAGE AUTO BROKERAGE LTD. ...	905892	July	26, 1990	Toronto
AEGIS INTERNATIONAL PLACEMENT SERVICES INC. ....	905710	July	25, 1990	Toronto

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
AFFINITRON BIOSCIENCE LABORATORIES INC. ....	905897	July 26, 1990	Scarborough
AGRI-TECH FOODS INC. ....	905603	July 24, 1990	Toronto
AGRI-TECH INDUSTRIES INC. ....	906320	July 30, 1990	Oakville
ALEKSANDAR Z. RADOJCIC SERVICES INC. ....	906706	Aug. 1, 1990	Toronto
ALFA MANAGEMENT GROUP INC. ....	905602	July 24, 1990	Thornhill
ALL-LOADS TRANSPORTATION INC. ....	903521	July 18, 1990	Cambridge
ALWAYS SAVINGS TRAVEL LIMITED ....	895044	July 20, 1990	Niagara Falls
AMADI ENTERPRISES INC. ....	905642	July 24, 1990	Toronto
ANNFRED HOLDINGS INC. ....	900044	July 25, 1990	Brantford
APEX INTERNATIONAL SALES LTD. ....	906756	Aug. 1, 1990	Thornhill
ARACAN COMPUTER SYSTEMS CENTRE INC. ....	895762	July 25, 1990	London
ARCOMM MARKETING SERVICES INC. ....	905958	July 27, 1990	Markham
ARCTIC VINYL & ALUMINUM INC. ....	906252	July 30, 1990	Caledon East
ART IN GOLD J & A JEWELLERY MANUFACTURING LTD. ....	900217	July 30, 1990	Sudbury
ART WARNER CONTRACTING LTD. ....	905679	July 24, 1990	Lynden
ASHTON ENGINEERING INC. ....	898615	July 31, 1990	Ottawa
ASIAN ELECTRONICS (CANADA) LIMITED	905962	July 27, 1990	Richmond Hill
ATCO PROPERTY MANAGEMENT SERVICES INC. ....	905901	July 26, 1990	Woodbridge
ATI/TACT COMPANY LIMITED ....	905839	July 26, 1990	Markham
AU FILET MIGNON EUROPEAN CUISINE LIMITED ....	903525	July 18, 1990	Oakville
AUBREY LESLIE APPLIANCE SERVICE LIMITED ....	905794	July 31, 1990	Aurora
AURORA LIGHTING INC. ....	905947	July 27, 1990	Aurora
AUTO WATT & SOUND LTD. ....	905979	July 27, 1990	Toronto
AVIAN INC. ....	906733	Aug. 1, 1990	Toronto
B & A TAXI LTD. ....	905877	July 26, 1990	Toronto
B & M BUILDERS & INDUSTRIAL HARDWARE LTD. ....	905917	July 26, 1990	Woodbridge
B. & L. TOOL & DIE LIMITED ....	905689	July 24, 1990	Weston
B. J. REFINISHING INC. ....	905948	July 27, 1990	Holland Landing
B. M. Z. IMPORT & EXPORT CO. INC. ....	906328	July 30, 1990	Mississauga
B.P. LANGLEY PLUMBING LTD. ....	906313	July 30, 1990	Brooklin
BABY BOOM CONNECTION INC. ....	906360	July 30, 1990	Scarborough
BACKERHAUS VEIT LTD. ....	905868	July 26, 1990	Toronto
BAGGIO SHOE FASHIONS LTD. ....	905919	July 26, 1990	Maple
BASIC TECHNOLOGIES CORPORATION ...	905910	July 26, 1990	Welland
BATHURST-BECKWITH (NORTHERN & EASTERN) HOTEL DEVELOPMENT CORPORATION ....	905660	July 24, 1990	Perth
BBD INVESTMENT PROPERTIES INC. ....	905845	July 26, 1990	Toronto
BEL PAGETTE CORPORATION ....	906392	July 31, 1990	Don Mills
BELLIFE INC. ....	906245	July 27, 1990	Port Elgin
BEST OF LOC. PRODUCTIONS INC. ....	906651	July 31, 1990	Toronto
BESTEAM GARMENT (CANADA) LIMITED	897440	July 30, 1990	Thunder Bay
BICSHOP PROPERTIES LTD. ....	906209	July 27, 1990	Toronto
BID TIME RETURN LIMITED ....	895771	July 26, 1990	London
BIG E ELECTRIC LIMITED ....	900221	July 31, 1990	Iroquois Falls
BIG KIDS LITTLE KIDS INC. ....	906329	July 30, 1990	Thornhill
BILL'S CHUTE SERVICE LTD. ....	905866	July 26, 1990	Scarborough
BIRCHWOOD VILLAGE (MEAFORD) LTD. ....	906305	July 30, 1990	Collingwood
BIZ-NIX SOFTWARE INC. ....	895767	July 26, 1990	London
BIZZ TRUCKING INC. ....	905930	July 26, 1990	Toronto
BLAZER BROS. VENTURE GROUP LTD. ...	906303	July 30, 1990	Toronto
BODEGA GOURMET CATERING SERVICES INC. ....	906400	July 31, 1990	Toronto
BORYSKO BROS LANDSCAPING INC. ....	903519	July 18, 1990	Oakville



Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
BRAMPTON VILLAGE CONVENIENCE & DELI INC. ....	906721	Aug.	1, 1990	Brampton
BRAND INDUSTRIAL SERVICES OF ONTARIO INC. ....	905638	July	24, 1990	Toronto
BRECKENRIDGE INSTALLATIONS INC. ....	895760	July	25, 1990	London
BROADWAY CLEANERS INC. ....	905915	July	26, 1990	Toronto
BROKER TRANSPORT LTD. ....	906743	Aug.	1, 1990	Etobicoke
BROOKHAVEN VILLAGE (CANADA) INC. ....	906324	July	30, 1990	Toronto
BROOKHAVEN VILLAGE (ONTARIO) INC. ....	906323	July	30, 1990	Toronto
BROTHERS FOUR INVESTMENTS (1990) INC. ....	905611	July	24, 1990	Richmond Hill
BUSINESS MESSAGE CENTRE INC. ....	906751	Aug.	1, 1990	Scarborough
C.M.L. LIMITED ....	906388	July	31, 1990	Markham
C.S.W. BEAMISH LTD. ....	885196	July	26, 1990	Campbellford
CAD DATA INC. ....	905872	July	26, 1990	Markham
CALERGENICS INC. ....	906628	July	31, 1990	Toronto
CAMGUARD MANAGEMENT SERVICES INC. ....	905922	July	26, 1990	Willowdale
CANADA/ITALY STONE CORP. ....	906220	July	27, 1990	Mississauga
CANADIAN WALL BEDS INC. ....	895574	July	25, 1990	Nepean
CANAG CONTRACTING LTD. ....	906695	Aug.	1, 1990	Maple
CANED CURRICULUM SERVICES INC. ....	906269	July	30, 1990	Toronto
CANGLOBE ENTERPRISES LIMITED ....	905637	July	24, 1990	Toronto
CANIZE INCORPORATED ....	905991	July	27, 1990	Newmarket
CANNINGTON CUSTOM WORK LTD. ....	894775	July	26, 1990	Cannington
CANTECH HOLDINGS INC. ....	905652	July	24, 1990	Mississauga
CARLETON BLINDS & DRAPES INC. ....	895581	July	26, 1990	Stittsville
CARNAROSS CONSULTING INC. ....	906372	July	31, 1990	Toronto
CARWELL CONTRACTING INC. ....	906690	Aug.	1, 1990	Concord
CARWIL INFORMATION SYSTEMS LTD ....	895570	July	25, 1990	Gloucester
CHALLENGE FILMS INC. ....	906660	Aug.	1, 1990	Toronto
CHAMPARLA ENTERPRISES INC. ....	905618	July	24, 1990	Toronto
CHECKLIST SYSTEMS LIMITED ....	895582	July	26, 1990	Nepean
CHEF'S GARLIC LTD. ....	906273	July	30, 1990	Woodbridge
CHENG BEHAVIOR RESEARCH LTD. ....	905865	July	26, 1990	North York
CHIA HOLDINGS LTD. ....	905967	July	27, 1990	Oakville
CHICKEN DIVINE (ONTARIO) INC. ....	906293	July	30, 1990	Markham
CHISHOLM & STANFORTH INC. ....	895553	July	23, 1990	Ottawa
CHUCK'S FRIED CHICKEN & RIBS INC. ....	906688	July	31, 1990	Toronto
CI COMPUTER INTEGRATIONS INC. ....	906250	July	30, 1990	Toronto
CKK INC. ....	905896	July	26, 1990	North York
CLARK & SNIVELY DISPOSAL LIMITED ...	893190	July	26, 1990	Kingsville
CLASSIQUE AUTO COLLEGIAN INC. ....	905621	July	24, 1990	Etobicoke
CLUNY PROPERTY MANAGEMENT CORPORATION ....	904989	July	24, 1990	Toronto
COLE'S FLORIST INC. ....	900069	July	31, 1990	Grimsby
COLLEGE BOOKS INC. ....	904987	July	24, 1990	Toronto
COLORS HAIR DESIGN LIMITED ....	905635	July	24, 1990	Woodbridge
COLROB LEASING & SALES INC. ....	894782	July	31, 1990	Whitby
COMPU-SCAN SERVICES INC. ....	894779	July	30, 1990	Oshawa
COMPUTERIZED PREVENTATIVE MAINTENANCE INC. ....	893189	July	25, 1990	Windsor
CONTRACT MARKETING DEVELOPMENT INC. ....	894962	July	31, 1990	Aurora
COOKHILL FARMS LTD. ....	895785	July	30, 1990	Gadshill
CORIANDER DEVELOPMENTS INC. ....	905852	July	26, 1990	Toronto
CORTELO BISTRO LTD. ....	905929	July	26, 1990	Toronto
COVERED WAGON TRANSPORTATION INC. ....	905647	July	24, 1990	Schomberg
CP CREATIVE INC. ....	906693	Aug.	1, 1990	Scarborough
CPF MARINE SYSTEMS LIMITED ....	895556	July	23, 1990	Ottawa
CREATIONS FROM THE HEART LIMITED .	905692	July	24, 1990	North York



Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
CROSSINGS BURLINGTON LTD. ....	906714	Aug.	1, 1990	Markham
CS ASSOCIATES INC. ARCHITECT AND ENGINEER .....	905899	July	26, 1990	Toronto
CSC FINANCE LIMITED .....	905920	July	26, 1990	Toronto
CUSHION STEP FLOORING LTD. ....	895770	July	26, 1990	St Marys
CYMAT HOLDINGS INC. ....	906627	July	31, 1990	Brampton
D N J (CANADA) INC. ....	906347	July	30, 1990	Scarborough
D. J. HARVIE AND ASSOCIATES LTD. ....	885200	July	31, 1990	Fenelon Falls
DALROL ASSOCIATES LTD. ....	905640	July	24, 1990	North York
DARCARRA PLUMBING & MECHANICAL LTD. ....	905672	July	24, 1990	Bolton
DARNOC INVESTMENTS LIMITED .....	906631	July	31, 1990	Toronto
DAVID J. BOSLEY ENTERPRISES LIMITED	894946	July	23, 1990	Barrie
DAVID MOSES HAULAGE LTD. ....	905803	July	26, 1990	Thornhill
DAVID PIPES HOLDINGS LTD. ....	906314	July	30, 1990	Oakville
DAVRON SYSTEMS INTERNATIONAL INC.	906882	Aug.	2, 1990	Mississauga
DAYE FASHION CO. LTD. ....	905925	July	26, 1990	Toronto
DDK MANAGEMENT INC. ....	904862	July	19, 1990	Oakville
DE JAN CONSULTING LTD. ....	906757	Aug.	1, 1990	Brampton
DEAN BROWN ENTERPRISES INC. ....	895589	July	27, 1990	Ottawa
DEBORAH GLEW & ASSOCIATES INC. ....	906226	July	27, 1990	Toronto
DECIBELS (LONDON) INC. ....	895786	July	31, 1990	London
DELAN CONSULTANTS INC. ....	906884	Aug.	2, 1990	Toronto
DENNIS MOON HOLDINGS LIMITED .....	894957	July	30, 1990	Alliston
DERIN ENTERPRISES INC. ....	905688	July	24, 1990	Downsview
DEZINE INTERNATIONAL CORPORATION	905844	July	26, 1990	Toronto
DIGITAL LABELLING SERVICES, INC. ....	900062	July	30, 1990	Stoney Creek
DISTINCTIVE FLORIST INC. ....	905634	July	24, 1990	Hamilton
DIVEQUEST II INC. ....	904993	July	24, 1990	Pickering
DIVERSIFIED BUILDING CORPORATION (1990) LTD. ....	906264	July	30, 1990	Toronto
DJ'S AUTO BODY LIMITED .....	898616	July	31, 1990	Stittsville
DLR RESEARCH CORP. ....	906233	July	27, 1990	Scarborough
DMJ INFORMATION SYSTEMS INC. ....	894768	July	23, 1990	Oshawa
DOMASO INTERNATIONAL TRADING CORP. ....	905895	July	26, 1990	Willowdale
DON PARK LANDSCAPING & GARDENING LTD. ....	904983	July	24, 1990	Richmond Hill
DONALD I BEACH & ASSOCIATES INC. ....	906712	Aug.	1, 1990	Greenwood
DORIENT ENTERPRISES LIMITED .....	906633	July	31, 1990	Toronto
DORY'S CUSTOM BUILT HOMES LTD. ....	895552	July	23, 1990	Ottawa
DOUBLE J HOLDINGS CORP. ....	905918	July	26, 1990	Thornhill
DRG SELLOTAPE INC. ....	905894	July	26, 1990	Don Mills
DROST DEBURRING INC. ....	906658	July	31, 1990	Waterloo
DRYCOPI INC. ....	905965	July	27, 1990	North York
E. JAKOBSON LTD. ....	905615	July	24, 1990	Willowdale
E.HANSEN INVESTMENTS LTD .....	905843	July	26, 1990	Pickering
EAST ASIA CANDLE SPECIALTIES (CANADA) LTD. ....	906705	Aug.	1, 1990	Brampton
EASTVIEW CONSULTING INC. ....	905848	July	26, 1990	Orangeville
EL TERCER MUNDO PRODUCTIONS LTD .	906740	Aug.	1, 1990	Toronto
ELECTRIC DISTRIBUTION INC. ....	905691	July	24, 1990	Mississauga
ELEGANT ENTRANCE LIMITED .....	906647	July	31, 1990	Toronto
ELITE DETAILING INC. ....	906225	July	27, 1990	Woodbridge
EMS-TECH INC. ....	883567	July	26, 1990	Belleville
EPIPHANY SAILBOAT CHARTERS INC. ....	905956	July	27, 1990	Mississauga
EVOLUTION CLEANING LTD. ....	895796	July	31, 1990	London
EXECUTIVE GLASS INC. ....	906761	Aug.	1, 1990	Brockville
F & Z CONTRACTORS INC. ....	900956	July	31, 1990	Kitchener
F.D.J. INVESTMENTS INC. ....	906885	Aug.	2, 1990	Toronto
FILMAR INVESTMENTS LIMITED .....	905664	July	24, 1990	Toronto
FIRE ALARM MAINTENANCE LTD. ....	905201	July	30, 1990	Harrow

Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
FORENSIC COMPUTING OF OTTAWA INC	895593	July	27, 1990	Ottawa
FOUR E FARMS INC. ....	905205	July	31, 1990	Leamington
FRALE ENTERTAINMENT MANAGEMENT INTERNATIONAL INC. ....	906611	July	31, 1990	Scarborough
FRANK HOMOLKA ENTERPRISES INC. ....	905941	July	27, 1990	Toronto
FRANK IACOBELLIS MARKETING LTD ....	906218	July	27, 1990	Bolton
FRASER GORDON ENTERPRISES INC. ....	906371	July	31, 1990	Oshawa
FULCRUM CUSTOM FABRICATORS INC. ..	906296	July	30, 1990	Mississauga
FURTADO & SALVATORE FOODS LTD. ....	906321	July	30, 1990	Mississauga
FUTACHI CANADA INC. ....	905604	July	24, 1990	Scarborough
FWOP (120-122 DAVID) INC. ....	906317	July	30, 1990	Brantford
FWOP (185-195 BERKSHIRE) INC. ....	906671	July	31, 1990	Brantford
FWOP (2&4 AVON-1243 QUEENS) INC. ....	906670	July	31, 1990	Brantford
FWOP (201-209-217-225-233 CASCADE) INC.	906668	July	31, 1990	Brantford
FWOP (204-204A & 204B HESPELER) INC. ...	905890	July	26, 1990	Brantford
FWOP (225-245 WESTWOOD) INC. ....	906316	July	30, 1990	Brantford
FWOP (3-19 BURNS) INC. ....	905885	July	26, 1990	Brantford
FWOP (5521 DRUMMOND) INC. ....	906669	July	31, 1990	Brantford
FWOP (558-560-562-564 DURHAM) INC. ....	905886	July	26, 1990	Brantford
FWOP (66 MOOREGATE) INC. ....	906276	July	30, 1990	Brantford
FWOP (855-857-859 JAMES) INC. ....	905884	July	26, 1990	Brantford
G.C. ADAMS ENTERPRISES INC. ....	906284	July	30, 1990	Agincourt
G.J. CAVANAGH SALES INC. ....	906629	July	31, 1990	Etobicoke
GAMBELLO ENTERPRISES INC. ....	905893	July	26, 1990	Downsview
GARY'S RADIATOR (ORLEANS) INC. ....	895566	July	25, 1990	Gloucester
GELSTAR HOLDINGS INC. ....	905959	July	27, 1990	Toronto
GENERAL PRACTITIONER RESEARCH GROUP INC. ....	905648	July	24, 1990	Toronto
GENESIS DIAPER CO. INC. ....	906747	Aug.	1, 1990	Mississauga
GERALD MOON HOLDINGS LIMITED ....	894958	July	30, 1990	Alliston
GERRY WHEATON & SON DIESEL INC ....	903531	July	18, 1990	Orangeville
GERRYVI INVESTMENTS INC ....	906283	July	30, 1990	Mississauga
GIANOU HOLDINGS INC. ....	905720	July	26, 1990	Etobicoke
GIDGETS INCORPORATED ....	895755	July	25, 1990	London
GIFT IMPRINT INC. ....	906609	July	31, 1990	Scarborough
GIL INVESTMENTS LIMITED ....	906231	July	27, 1990	Toronto
GLENOAK INTERNATIONAL INC. ....	906779	Aug.	1, 1990	Mississauga
GLORIA PRODUCTION LTD. ....	904981	July	24, 1990	Toronto
GOLDEN PAINTERS INC. ....	895555	July	23, 1990	Orleans
GOLDIE SCHERMANN MANAGEMENT CONSULTANTS INC. ....	906219	July	27, 1990	Toronto
GOOD KNIGHT MASONRY LTD. ....	906684	Aug.	1, 1990	Toronto
GOODIES BY TWO SHOES LTD. ....	905902	July	26, 1990	Clifford
GOODY COLOR SEPARATION (CANADA) LTD. ....	906697	Aug.	1, 1990	Bondhead
GORDONS TRUCKING SERVICES LTD. ....	895777	July	27, 1990	Parkhill
GRABBACAB LIMITED ....	906741	Aug.	1, 1990	Brampton
GRACE MARBLE CONSTRUCTION LTD. ...	905923	July	26, 1990	Toronto
GRAND DUKES DESIGN UPHOLSTERY INC. ....	906331	July	30, 1990	North York
GRAPHICENTRE DESIGN & PRODUCTION LTD. ....	906758	Aug.	1, 1990	Don Mills
GREENSTAR LANDSCAPING INC. ....	895554	July	23, 1990	Kanata
GRIMALDI IMPORTS INC. ....	906772	Aug.	1, 1990	Concord
GSPC ASSOCIATES INC. ....	904999	July	24, 1990	Downsview
GTAC CORPORATION ....	883564	July	23, 1990	Kingston
GTX-CANADA INC. ....	906280	July	30, 1990	Toronto
GUARDFORCE (CANADA) LTD. ....	906207	July	27, 1990	Scarborough
GUIDE LIGHT PHOTO INC. ....	905643	July	24, 1990	Scarborough
GUY LORTIE & ASSOCIATES FINANCIAL SERVICES INC. ....	895586	July	27, 1990	Gloucester
H. N. ROSENBERG HOLDINGS LIMITED ...	906375	July	31, 1990	Thornhill

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
HARVESTER PHYSIO INC. ....	900059	July 27, 1990	Oakville
HAVIT CLEANING SERVICES INC. ....	894952	July 25, 1990	Barrie
HAYCORP LTD. ....	905677	July 24, 1990	Toronto
HAZELTON INVESTING INC. ....	906366	July 31, 1990	Toronto
HEADGATE CONTRACTING INC. ....	906731	Aug. 1, 1990	Don Mills
HEATHER LEWIS MANAGEMENT INC. ....	906346	July 30, 1990	Oakville
HEWLIN INFORMATION SYSTEMS INC. ....	895791	July 31, 1990	London
HIGH POINT EQUIPMENT LTD. ....	906659	July 31, 1990	Brampton
HIGH SERENITY DEVELOPMENTS LTD. ...	894959	July 31, 1990	Collingwood
HODGE HOUSE HOLDINGS LTD. ....	906381	July 31, 1990	Cornwall
HONEYWOOD TIRE LTD. ....	900960	July 31, 1990	Stratford
HOSPITALITY PERFORMANCE SPECIALISTS INC. ....	906359	July 30, 1990	Toronto
HOUSTON INC. ....	895778	July 27, 1990	London
HUDES INVESTMENTS LIMITED ....	904818	July 31, 1990	Willowdale
HUMAN CHANGE CONSULTANTS INC. ....	905667	July 24, 1990	Toronto
I N T HOLDINGS LIMITED ....	895797	July 31, 1990	London
IL GABBIANO RISTORANTE LTD. ....	905207	July 31, 1990	Windsor
IMPRIMERIE VISION PRINTERS LTD. ....	900209	July 25, 1990	Hanmer
INDONESIA RESTAURANT (1990) LTD. ....	906720	Aug. 1, 1990	Toronto
ING & ING COMPANY LTD. ....	906775	Aug. 1, 1990	Scarborough
INNISFIL TOWN & COUNTRY LIMITED ....	894964	July 31, 1990	Stroud
INTER METRO FUNDING INC. ....	899372	July 24, 1990	London
IONIAN LINES LIMITED ....	906281	July 30, 1990	Toronto
ISIS RESEARCH LIMITED ....	895585	Aug. 1, 1990	Ottawa
J. V. C. FOODS INC. ....	895068	July 31, 1990	Port Colborne
J.A. TANCORP INC. ....	906275	July 30, 1990	Mississauga
J.E. MILES HOLDINGS INC. ....	895799	Aug. 1, 1990	London
JAMES MEYERS AND ASSOCIATES INC. ...	906203	July 27, 1990	Toronto
JE T'AIME TRADING CORP. ....	906832	Aug. 2, 1990	Toronto
JEDD ENTERPRISES INC. ....	906211	July 27, 1990	Toronto
JEFFREY GEORGE HERRINGTON ENTERPRISES LTD. ....	900045	July 25, 1990	Halton Hills
JEM-MOR INVESTMENTS INC. ....	894781	July 31, 1990	Oshawa
JOHN & BRUCE COMBINING LTD. ....	905911	July 26, 1990	Winchester
JOHN KENNEDY & ASSOCIATES MARKETING COMMUNICATIONS INC. ...	900068	July 31, 1990	Etobicoke
JOSE LEDO SONS & ASSOCIATES LTD. ....	899371	July 20, 1990	Mississauga
JOUVE RESOURCES CORPORATION ....	906730	Aug. 1, 1990	Toronto
K. & W. OPTICAL LIMITED ....	900959	July 31, 1990	Waterloo
K. C. & I. FUELWOODS INC. ....	906332	July 30, 1990	Listowel
K-B CONTROLS LTD. ....	906395	July 31, 1990	Toronto
K-2 IMPORTS LIMITED ....	905625	July 24, 1990	Pickering
KARAM MANUFACTURING LTD. ....	905208	July 31, 1990	Windsor
KAREGAN INTERNATIONAL INC. ....	906367	July 31, 1990	Toronto
KAREN E. MONTEITH INTERNATIONAL LIMITED ....	894963	July 31, 1990	Barrie
KC STORES LTD. ....	895766	July 26, 1990	Port Stanley
KELLMAN ARTS INC. ....	905943	July 27, 1990	Burlington
KELSO & SCHARFE SALES LTD. ....	895598	July 30, 1990	Nepean
KIIKO CHILDREN'S WEAR LTD. ....	906270	July 30, 1990	North York
KINGSWELL LEATHER INC. ....	905846	July 26, 1990	Toronto
KORCANA DEVELOPMENTS INC. ....	905616	July 24, 1990	Waterloo
KORTANNE FARMS LTD. ....	895776	July 27, 1990	Denfield
KOSMOS COMPUTER CONSULTANTS LIMITED ....	906287	July 30, 1990	Pickering
KRO COMPUTING LTD. ....	905623	July 24, 1990	Toronto
L.A.R.D. HOLDINGS INC. ....	906334	July 30, 1990	Bolton
L.E. APPLIANCES LTD. ....	904982	July 24, 1990	Scarborough
LA ENTERPRISES INC. ....	905854	July 26, 1990	Woodbridge
LACBRANT ENTERPRISES INC. ....	905828	July 26, 1990	Brampton
LADY DI'S HOUSE OF HAIR DESIGN LTD. ....	905993	July 27, 1990	Hamilton



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
LEADER STAIR & RAILING LTD. ....	905807	July 26, 1990	Aurora
LEASE BUSTERS INC. ....	905841	July 26, 1990	Mississauga
LEE CUTHBERTSON SALES & SERVICE LTD. ....	900926	July 25, 1990	Guelph
LENDING LEGAL HANDS INC. ....	900953	July 31, 1990	Kitchener
LEO SANTERRE & SON CONSTRUCTION LTD. ....	900210	July 26, 1990	Chapleau
LETTERPERFECT INC. MARKETING, PUBLISHING & PRINTING ....	894961	July 31, 1990	Aurora
LGL HOLDING CORPORATION ....	906312	July 30, 1990	King City
LGL INVESTMENTS INC. ....	906311	July 30, 1990	King City
LOCATIO CAPITAL INC. ....	895772	July 27, 1990	London
LOIS VOLK MORTGAGE SERVICES INC. ...	906282	July 30, 1990	Toronto
LOJ CONSTRUCTION LIMITED ....	905921	July 26, 1990	Downsview
LOJ HOLDINGS INCORPORATED ....	905924	July 26, 1990	Downsview
LONDON METRO LINE LIMITED ....	895747	July 23, 1990	Hyde Park
LONGWOODS GOLF CENTRE LTD. ....	895789	July 31, 1990	London
M. JACKSON ROOFING CORPORATION ....	905974	July 27, 1990	Brantford
M.J.C.H. MANAGEMENT LIMITED ....	905687	July 24, 1990	Toronto
M.R.S. INVESTMENTS INC. ....	906739	Aug. 1, 1990	Brampton
MABROE PROJECTS INC. ....	906289	July 30, 1990	North York
MANITOUWADGE TRANSPORT INC. ....	906345	July 30, 1990	Manitouwadge
MAPLE TECHNOLOGIES INC. ....	905976	July 27, 1990	Toronto
MAQUILLAGE ESTHETIQUE INC. ....	906702	Aug. 1, 1990	Markham
MARC LANDRY HOLDINGS LTD. ....	900216	July 27, 1990	Val Caron
MARIDION INTERNATIONAL ENTERPRISES INC. ....	906696	Aug. 1, 1990	Don Mills
MARIE STROBL INC. ....	895775	July 27, 1990	London
MARIETTE INVESTMENT CORPORATION .	895794	July 31, 1990	London
MARILYN LOVE HOLDINGS LTD. ....	906391	July 31, 1990	Toronto
MARITIME ENGINEERED PRODUCTS LTD.	906304	July 30, 1990	Markham
MATHESON ADVERTISING INC. ....	905646	July 24, 1990	Toronto
MAUR-AL BUILDING MANAGEMENT INC.	905645	July 24, 1990	Weston
MAXCO E.H.HOLDINGS INC. ....	906337	July 30, 1990	Rexdale
MAXWELL COUNTRY INC. ....	906336	July 30, 1990	Weston
MAYSRING FOOD & SANDWICH CORPORATION ....	905999	July 27, 1990	Mississauga
MEDI INNOVATIONS INC. ....	905970	July 27, 1990	Terra Cotta
MERIT REAL ESTATE ENTERPRISES INC.	905636	July 24, 1990	Toronto
MEXONTA SERVICES INC. ....	905657	July 24, 1990	Toronto
MICRO ACCOUNTING CONCEPTS LTD. ....	906310	Aug. 1, 1990	Burlington
MIGRATION 2000 CORPORATION ....	905908	July 26, 1990	Mississauga
MILLGATE CREST & EMBROIDERY LTD. .	905601	July 24, 1990	Aurora
MINARCO DEVELOPMENTS (1990) LIMITED ....	906632	July 31, 1990	Etobicoke
MIRADOR RESEARCH LTD. ....	906210	July 27, 1990	Toronto
MIRATECH DESIGN LTD. ....	906727	Aug. 1, 1990	Toronto
MISTY VENTURES & DEVELOPMENTS INC. ....	895580	July 26, 1990	Ottawa
MOBILE AUTOGLASS FRANCHISING INC.	900935	July 26, 1990	Kitchener
MODEMCO INC. ....	905651	July 24, 1990	Mississauga
MOGUL FINANCIAL CORP. ....	900036	July 23, 1990	Stoney Creek
MOLDCRAFT (1990) PLASTICS LTD. ....	905876	July 26, 1990	Guelph
MORLAND MARKETING INC. ....	905613	July 24, 1990	North York
MORZARIA HOLDINGS INC. ....	906605	July 31, 1990	Markham
MOSQUITO COAST INVESTMENTS INC. ....	893198	July 30, 1990	Windsor
MOTOR FANS AUTO LEASING INC. ....	906738	Aug. 1, 1990	Scarborough
MR & MRS MTG LTD. ....	895073	Aug. 1, 1990	Niagara Falls
MR. KOOL'S LTD. ....	906719	Aug. 1, 1990	Oshawa
MR. SAVER INC. ....	906874	Aug. 2, 1990	Toronto
MSA ENTERPRISES INC. ....	906607	July 31, 1990	Markham
MUIRHEAD CONSTRUCTION LIMITED ....	900054	July 27, 1990	Freelton



Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
MUSIC TRENDS TEACHING STUDIOS INC.	905619	July	24, 1990	Scarborough
N.S.I. NATIONAL SERVICES INCORPORATED .....	905972	July	27, 1990	Mississauga
NASCO WOODWORKING & RAILINGS LTD. ....	906223	July	27, 1990	North York
NATIONAL DATA NETWORKS INC. ....	895757	July	25, 1990	London
NAVIMAP CORP. ....	906665	July	31, 1990	Oakville
NELLA RACO INVESTMENTS LTD. ....	905690	July	24, 1990	Brampton
NELLIGAN/POWER MANAGEMENT CORP.	895576	July	26, 1990	Ottawa
NEW HAMMER CONSTRUCTION CO. INC.	900046	July	25, 1990	Dundas
NEW PRINTING INC. ....	895599	July	30, 1990	Ottawa
NEWDSNCA, INC. ....	905954	July	27, 1990	Mississauga
NEWPORT EAST SHORE LTD. ....	904992	July	24, 1990	Richmond Hill
NEWPORT HIGH RISE LTD. ....	904994	July	24, 1990	Richmond Hill
NEWPORT LOW RISE LTD. ....	904995	July	24, 1990	Richmond Hill
NEWPORT MARINA LTD. ....	904996	July	24, 1990	Richmond Hill
NEWPORT WEST SHORE LTD. ....	904991	July	24, 1990	Richmond Hill
NIAGARA ROOF ANCHORS INC. ....	906297	July	30, 1990	St Catharines
NISHAN INTERNATIONAL INC. ....	905650	July	24, 1990	Mississauga
NORDOORS INDUSTRIAL SERVICE LTD. ..	900205	July	23, 1990	Sudbury
NORMANDY FILMWORKS LIMITED LES FILMS NORMANDY INC. ....	905721	July	31, 1990	Etobicoke
NORTH AMERICAN EQUIPMENT SALES AND SERVICE LIMITED .....	906723	Aug.	1, 1990	Mississauga
NORTHTRON CORPORATION .....	905973	July	27, 1990	Rexdale
NORTHWEST TRUCKING INC. ....	893187	July	25, 1990	Maidstone
NOVI FOODS LTD. ....	906295	July	30, 1990	Mississauga
NOVOS DEVELOPMENTS LIMITED .....	900065	July	30, 1990	Hamilton
NPE NATIONAL PARTNERSHIP EXCHANGE LIMITED .....	895568	July	25, 1990	Gloucester
NRS PHOENIX REALTY INC. ....	906735	Aug.	1, 1990	Newmarket
NU-METRICS CANADA INCORPORATED ..	895748	July	23, 1990	London
OLIVER'S TWIST RESTAURANT INC. ....	895046	July	23, 1990	St Catharines
ONLY CHOICE VIDEO LTD. ....	906667	July	31, 1990	Toronto
OTTAWA PERFORMANCE CARS INC. ....	906244	July	27, 1990	Ottawa
OVAL LIGHTING CORPORATION .....	906384	July	31, 1990	Toronto
OVERSEERS CORPORATION .....	905681	July	24, 1990	Toronto
OXLEA HOLDINGS LIMITED .....	906232	July	27, 1990	Toronto
P & ML KELLY PERSONNEL SERVICES INC. ....	906744	Aug.	1, 1990	Richmond Hill
PALMAS DEVELOPMENT CORPORATION .	906745	Aug.	1, 1990	Toronto
PAM-LIN-LOR INVESTMENTS LTD. ....	894950	July	25, 1990	Orillia
PAN CANADIAN PUBLISHERS LIMITED ...	906634	July	31, 1990	Don Mills
PARLEVLIET HOLDINGS INC. ....	895059	July	26, 1990	Niagara Falls
PASQUALE PANNUNZIO TRENCHING & EXCAVATING LTD. ....	906224	July	27, 1990	Toronto
PATEL'S WHOLESALE DISTRIBUTORS LTD. ....	900050	July	26, 1990	Burlington
PATH II CREATIVE SERVICES INC. ....	906661	Aug.	1, 1990	Oakville
PATTERNED CONCRETE (OAKVILLE-BURLINGTON) INC. ....	906608	July	31, 1990	Mississauga
PD JO'S TRADING CORPORATION .....	906279	July	30, 1990	Scarborough
PEARLS AND SILK COUTURE BY MARCELLA INC. ....	900072	July	31, 1990	Hamilton
PENJEN INVESTMENTS INC. ....	905641	July	24, 1990	Bramalea
PETER LIN DRUGS LTD. ....	906248	July	30, 1990	Scarborough
PHILLIPINE TROPICAL FOOD STORE LTD.	906725	Aug.	1, 1990	Toronto
PIKN'S MOTEL & ROAD HOUSE INC. ....	906251	July	30, 1990	Port Hope
PINE ISLE INC. ....	900958	July	31, 1990	Waterloo
PINES BRANT MANAGEMENT INC. ....	900071	July	13, 1990	Ancaster
PLUMMER & 60 INC. ....	906278	July	30, 1990	Burlington

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
PORTFOLIO DEVELOPMENT CORPORATION .....	900941	July 27, 1990	Kitchener
PRIME TIME TOURS INC. ....	905938	July 27, 1990	Keswick
PRIORITY FUNDING INC. ....	904980	July 24, 1990	Toronto
PRIORITY PARTNERS INC. ....	905987	July 27, 1990	Toronto
PRO INTERLOCKING & CONSTRUCTION LTD. ....	906274	July 30, 1990	Woodbridge
PRO LEVEL SPORTS INC. ....	905942	July 27, 1990	Toronto
PROSEARCH MARKETING & MANAGEMENT LTD. ....	906214	July 27, 1990	Mississauga
PURVIS GALLERY AND FRAMING LIMITED .....	906208	July 27, 1990	Pembroke
Q ONTARIO LTD .....	905983	July 27, 1990	Mississauga
QUADRUS COMPUTER TECHNOLOGIES INC. ....	895569	July 25, 1990	Nepean
QUALITY DOG GROOMING INC. ....	905671	July 24, 1990	Downsview
R & Y INTERNATIONAL CO. INC. ....	906267	July 30, 1990	Downsview
R.A.C. CONSULTANTS LTD. ....	906603	July 31, 1990	Willowdale
R.D.G. NASH HOLDINGS INC. ....	906240	July 27, 1990	Oakville
R.K. MOULDS LTD. ....	905878	July 26, 1990	Bowmanville
R.W.S. HOISTS & CRANES INC. ....	906614	July 31, 1990	Scarborough
RANCHDALE ESTATES INC. ....	906377	July 31, 1990	Concord
RANDLE PHARMACEUTICALS INC. ....	906382	July 31, 1990	Toronto
RAPID SAFETY SUPPLY HOUSE LTD. ....	895072	Aug. 1, 1990	St Catharines
RAX RESTAURANT ST. CATHARINES INC. ....	906247	July 30, 1990	Mississauga
RAY MCKAY HOCKEY, INC. ....	895788	July 31, 1990	Ilderton
RCW CULTURAL ENTERPRISES INC. ....	906675	July 31, 1990	Toronto
RED/CAM MANUFACTURING INC. ....	900946	July 30, 1990	Cambridge
REJ HOULE FUELS LTD. ....	900220	July 30, 1990	Hanmer
REPRO GRAPHIC TECHNOLOGY INTERNATIONAL LIMITED .....	900914	July 23, 1990	Kitchener
RETIREMENT LIVING SERVICES DEVELOPMENTS INC. ....	898609	July 31, 1990	Ottawa
REVELSTOKE DEVELOPMENTS CORP. ....	895597	July 30, 1990	Ottawa
REVIVISCENCE INC. ....	897179	July 20, 1990	Mississauga
RICAN INTERNATIONAL INC. ....	906249	July 30, 1990	Brampton
RICCIUTO CONSTRUCTION LTD. ....	905859	July 26, 1990	Downsview
RICHARD J. MARTIN HOLDINGS INC. ....	900942	July 27, 1990	Wallenstein
RICHARD LAVOIE TRANSPORT INC. ....	895578	July 26, 1990	Bourget
RICHLOR TRUCKING INC. ....	905961	July 27, 1990	New Liskeard
RICK SEARS TIRE INC. ....	894965	July 31, 1990	Orillia
RIDO CONTRACTING LTD. ....	906619	July 31, 1990	King City
RINALDI HOMES INC. ....	895066	July 31, 1990	Thorold
RINALDI PROPERTIES (NIAGARA) INC. ...	895067	July 31, 1990	St Catharines
RIPPERS HOLDINGS LTD. ....	905904	July 26, 1990	Burlington
RIVER SIDE BURLINGTON LTD. ....	906715	Aug. 1, 1990	Markham
RIVERWAY INVESTMENTS LIMITED .....	906765	Aug. 1, 1990	Mississauga
ROBANN CORPORATION .....	906699	Aug. 1, 1990	Mississauga
ROBERT K. SPROGIS PRODUCTIONS INC. ....	906640	July 31, 1990	Toronto
ROBERT SHAPIRO & ASSOCIATES LTD. ...	906290	July 30, 1990	Toronto
ROBERTS EVENT MANAGEMENT INC. ....	905977	July 27, 1990	Toronto
ROBIN INC. ....	905656	Aug. 1, 1990	Scarborough
ROWNTREE DRY CLEANERS & LAUNDERMAT INC. ....	905682	July 24, 1990	Etobicoke
ROYAL BURGER DRIVE-IN LTD. ....	885198	July 31, 1990	Peterborough
RPM'S COMPUTER CONSULTING GROUP INC. ....	905981	July 27, 1990	East York
S. AHMAD ENTERPRISES LTD. ....	906623	July 31, 1990	Unionville
S.M.B.A. MANUFACTURING LTD. ....	903492	July 13, 1990	Madoc
SADLER'S HAULAGE & EXCAVATING LTD. ....	905815	July 26, 1990	Markham
SAIL COMMUNICATIONS INC. ....	895779	July 30, 1990	London

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
SAMDAR HOLDINGS LIMITED .....	906612	July 31, 1990	Toronto
SAMMEI FOOD INC. ....	905998	July 27, 1990	Woodbridge
SANDERCOTT HEATING AND SHEET METAL INC. ....	895075	Aug. 1, 1990	St Catharines
SANDY SNELGROVE'S GALLERY AND STRAND FINE ART SERVICES INC. ....	895768	July 26, 1990	London
SAVE-ON OFFICE SUPPLIES INC. ....	906701	Aug. 1, 1990	Don Mills
SCARBOROUGH DIRECT MARKETING INC. ....	894784	July 31, 1990	Scarborough
SCHATZI CAPITAL INC. ....	906271	July 30, 1990	Toronto
SECURE FUTURE INSURANCE PLANNERS INCORPORATED .....	905629	July 24, 1990	Brampton
SEVEN SEA'S NATURAL SPONGE CO. LTD. SEVENTY-FIVE CORPORATE PARK DRIVE LTD. ....	906774	Aug. 1, 1990	Scarborough
SHAUGHNESSY'S RESTAURANT INC .....	895045	July 20, 1990	St Catharines
SHEDAN INDUSTRIES LTD. ....	900214	July 27, 1990	Sudbury
SHELEMAY JEWELLERY APPRAISALS LTD. ....	905202	July 31, 1990	Kingsville
SHEMELUCK HOLDINGS INC. ....	906678	July 31, 1990	Thornhill
SHERBURN MOTOR FREIGHT INC. ....	905989	July 27, 1990	Toronto
SILDOM HOLDINGS LTD. ....	900916	July 23, 1990	Tavistock
SIMRAN HOSIERY INC. ....	905963	July 27, 1990	Woodbridge
SITE SERVICES CO. LTD. ....	905673	July 24, 1990	Scarborough
SNOWNORTH PERFORMANCE CENTRE INC. ....	906396	July 31, 1990	Stroud
SOUND BUILDERS INC. ....	894949	July 25, 1990	Sebright
SPARK CANADIAN ENTERPRISES INC. ....	906000	July 27, 1990	Toronto
SPARK CANADIAN ENTERPRISES LTD. ....	906235	July 27, 1990	Toronto
SPECTRA-SHADE WINDOW COVERINGS LTD. ....	906655	July 31, 1990	Toronto
SPENMAR TRANSPORT INC. ....	905903	July 26, 1990	Kingston
SPORTS SPONSORS INC. ....	906683	Aug. 1, 1990	Mississauga
SPORTSWORLD TRAVEL (CANADA) LTD. SPURLE MANAGEMENT COMPANY INC. ..	905817	July 26, 1990	West Hill
ST. JOSEPH ISLAND PICKERING FARM INC. ....	906766	Aug. 1, 1990	Toronto
STANKAR INVESTMENTS LTD. ....	906664	Aug. 1, 1990	Toronto
STARCROSS INVESTMENTS CORPORATION .....	882283	July 23, 1990	Sault Ste Marie
STATHAKIS CARPET DISTRIBUTORS INC. STEARCO (LONDON) LIMITED .....	906394	July 31, 1990	Mississauga
STEVENSON-DUSOME INSURANCE AGENCY LIMITED .....	906753	Aug. 1, 1990	Mississauga
STOBAN HOLDINGS INC. ....	904997	July 24, 1990	Scarborough
STONEAGE ENTERPRISES INC. ....	895787	July 31, 1990	London
STRATEGIC DIRECTIONS INC .....	894954	July 25, 1990	Barrie
STRATEGIES FOR EXCELLENCE INC. ....	906704	Aug. 1, 1990	Burlington
STROUTIAN HOLDINGS INC. ....	902603	July 31, 1990	Peterborough
STUART CARROLL QUALITY MEATS LTD. SUNRISE INVITATIONS LTD. ....	905997	July 27, 1990	Brampton
SUPREME RECOVERY SERVICES LTD. ....	905624	July 24, 1990	Toronto
SURFACE SAVERS LTD. ....	876736	July 30, 1990	Petrolia
SWITZER RECREATIONAL PROPERTIES LTD. ....	906222	July 27, 1990	Brampton
T. M. M. E. INCORPORATED .....	905686	July 24, 1990	Toronto
T. R. MILLS & ASSOCIATES INC. ....	897444	Aug. 1, 1990	Thunder Bay
T.L. GROSSI CONSTRUCTION LTD. ....	899355	July 25, 1990	York
TAIFA ENTERPRISES INC. ....	900944	July 30, 1990	Guelph
TAK VENG TRADING LIMITED .....	905842	July 26, 1990	Toronto
TALBOTS (CANADA), INC. ....	895047	July 23, 1990	St Catharines
	906239	July 27, 1990	Burlington
	895057	July 26, 1990	Fonthill
	898614	July 31, 1990	Ottawa
	905949	July 27, 1990	Scarborough
	905869	July 26, 1990	Toronto



Name of Corporation	Ontario Corp. No.	Date of Incorporation		Registered Office
TAWA INVESTMENTS INC. ....	898606	July	31, 1990	Nepean
TECFA INC. ....	906776	Aug.	1, 1990	Scarborough
TECHBUILD CONSTRUCTION LTD. ....	905662	July	24, 1990	Mississauga
TELECOMMUNICATION TRAINING SERVICES LTD. ....	883578	Aug.	1, 1990	Kingston
TELEPOLL CANADA INC. ....	906650	July	31, 1990	North York
TELLINGWOOD ENTERPRISES INC. ....	905617	July	24, 1990	Toronto
TERMAR INTERNATIONAL CONSULTANTS LTD. ....	906364	July	31, 1990	Oakville
THE ASTROLABE GALLERY INC. ....	898605	July	31, 1990	Nepean
THE CANDY STORE WASAGA INC. ....	905805	July	26, 1990	Bradford
THE ECONOMIC BOOM CREATION CORPORATION ....	905966	July	27, 1990	Barrie
THE FURNITURE PALACE INC. ....	895784	July	30, 1990	London
THE LANDMARK CONSULTING GROUP INC. ....	906306	July	30, 1990	Toronto
THE MASCOM GROUP INC. ....	905605	July	24, 1990	Toronto
THE ROBERT ABELSON COMPANY (INSURANCE) INC. ....	898602	July	30, 1990	Ottawa
THE S. A. DESIGN GROUP INC. ....	905685	July	24, 1990	Toronto
THE SIFTON CAPITAL CORPORATION ....	906881	Aug.	2, 1990	Toronto
THE SINGER AND THE SONG LTD. ....	895074	Aug.	1, 1990	St Catharines
THE ULTIMATE LEASING CORPORATION	905644	July	24, 1990	Concord
THE VALLEY GOODS COMPANY INC. ....	898604	July	31, 1990	Ashton
THE VISUAL CONNECTION INC. ....	905831	July	26, 1990	Toronto
THOMAS R. BRERETON & ASSOCIATES LTD. ....	904945	July	23, 1990	Mississauga
THUNDER BAY TUG SERVICES LTD. ....	897439	July	27, 1990	Thunder Bay
TIAD INTERNATIONAL CONSULTING ASSOCIATES INC. ....	905827	July	26, 1990	Toronto
TIDY UP ORGANIZERS INC. ....	906728	Aug.	1, 1990	Etobicoke
TIM INFORMATICS LTD. ....	898601	July	30, 1990	Gloucester
TIMMINS DRYWALL LTD. ....	906748	Aug.	1, 1990	Timmins
TIMMINS TIRE SALES LIMITED ....	895592	July	27, 1990	Timmins
TNT FOODS INTERNATIONAL INC. ....	905606	July	24, 1990	Newmarket
TORCON CONSTRUCTION INC. ....	905804	July	26, 1990	Toronto
TOTAL SIGN SERVICE INC. ....	906835	Aug.	2, 1990	Thornhill
TOUCHKEY COMMUNICATIONS INC. ....	905676	July	24, 1990	Pembroke
TOY CAPS INTERNATIONAL INC. ....	900049	July	26, 1990	Burlington
TRACOM CLOTHING LTD. ....	905857	July	26, 1990	Mississauga
TRADEAST GROUP, INC. ....	906301	July	30, 1990	Concord
TRAIGHLI HOLDINGS INC. ....	905847	July	26, 1990	Mississauga
TRI MODERN CLEANING SERVICES LTD.	900224	July	31, 1990	Sudbury
TRICOVENANT HOLDINGS LTD. ....	895774	July	27, 1990	Ingersoll
TRUSCO MORTGAGE INVESTMENT CORPORATION ....	895780	July	30, 1990	Toronto
TWIRE PUBLICATIONS INC. ....	895761	July	25, 1990	Watford
TYREC INC. ....	895056	July	25, 1990	Stevensville
UPPER CANADA CATERERS LTD. ....	906262	July	30, 1990	Toronto
UR' BEN KEELE INVESTMENTS LTD. ....	906689	Aug.	1, 1990	North York
URQUHART, POWELL & ASSOCIATES INC.	906300	July	30, 1990	Toronto
VALU-Q-PONS CANADA INC. ....	905990	July	27, 1990	North York
VALUES PLUS MARKETING INCORPORATED ....	906700	Aug.	1, 1990	Scarborough
VALVOLINE CANADA LTD. VALVOLINE CANADA LTEE ....	905955	July	27, 1990	Mississauga
VILLAGE OF EVERYTHING'S POSSIBLE, INCORPORATED ....	905968	July	27, 1990	Toronto
VIRIX INC. ....	906606	July	31, 1990	Markham
VISTA PARKING SYSTEMS CORPORATION	906777	Aug.	1, 1990	Toronto
VOISIN-GABLE & ASSOCIATES INSURANCE BROKERS INC. ....	906645	July	31, 1990	Simcoe



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
WASHBUCKLERS INC. ....	906398	July 31, 1990	Orillia
WATERLOX CANADA CHEMICAL & COATINGS CORPORATION .....	876734	July 23, 1990	Clearwater
WAWEL TRAVEL INC. ....	906389	July 31, 1990	Mississauga
WELLINGTON RETIREMENT CENTRE DEVELOPMENTS INC. ....	898621	Aug. 1, 1990	Ottawa
WELLINGTON RETIREMENT CENTRE FINANCIAL SERVICES INC. ....	898622	Aug. 1, 1990	Ottawa
WENTWORTH 2000 LTD. ....	906238	July 27, 1990	Scarborough
WHISTLEBARE POULTRY FARM LTD. ....	900927	July 26, 1990	Cambridge
WILBECO HOLDINGS INC. ....	906335	July 30, 1990	Brampton
WILBON INVESTMENTS INC. ....	905829	July 26, 1990	Scarborough
WIZ ELECTRONICS LTD. ....	906742	Aug. 1, 1990	Toronto
WOJCIESZEK CONSTRUCTION INC. ....	906285	July 30, 1990	Mississauga
XENOPS ONTARIO INC. ....	895756	July 25, 1990	London
YESTERYEAR TOYS & BOOKS INC. ....	883569	July 26, 1990	Brighton
YORK TAVERN AND STEAKHOUSE INC. ..	906397	July 31, 1990	Toronto
YORK TRILLIUM FINANCE CORPORATION .....	905934	July 27, 1990	North York
YOUNG DO CORPORATION .....	905816	July 26, 1990	North York
ZEDCON TRAINING INC. ....	905626	July 24, 1990	Concord
ZEIN MANAGEMENT INC. ....	906760	Aug. 1, 1990	Mississauga
ZEKOM ELECTRONICS CORP. ....	905666	July 24, 1990	Richmond Hill
ZONE PROTECTION INC. ....	905830	July 26, 1990	Mississauga
2 PM GROUP, LTD. ....	906234	July 27, 1990	Toronto
27 KENT LANE LIMITED .....	906204	July 27, 1990	Scarborough
68 MERTON ST. HOLDINGS INC. ....	906259	July 30, 1990	Toronto
882288 ONTARIO LIMITED .....	882288	July 30, 1990	Sault Ste Marie
882289 ONTARIO LIMITED .....	882289	July 31, 1990	Blind River
883565 ONTARIO LTD. ....	883565	July 25, 1990	Gananoque
883568 ONTARIO LIMITED .....	883568	July 26, 1990	Campbellford
883570 ONTARIO INC. ....	883570	July 26, 1990	Brockville
883571 ONTARIO INC. ....	883571	July 26, 1990	Brockville
883572 ONTARIO INC. ....	883572	July 26, 1990	Brockville
883579 ONTARIO INC. ....	883579	Aug. 1, 1990	Kingston
885194 ONTARIO LTD. ....	885194	July 25, 1990	Lindsay
885197 ONTARIO INC. ....	885197	July 31, 1990	Cobourg
885199 ONTARIO LIMITED .....	885199	July 31, 1990	Bobcaygeon
893172 ONTARIO LIMITED .....	893172	July 20, 1990	Cottam
893191 ONTARIO LIMITED .....	893191	July 26, 1990	Oldcastle
893199 ONTARIO LIMITED .....	893199	July 30, 1990	Kingsville
894771 ONTARIO LIMITED .....	894771	July 25, 1990	Oshawa
894772 ONTARIO INC. ....	894772	July 25, 1990	Hampton
894773 ONTARIO INC. ....	894773	July 25, 1990	Orono
894774 ONTARIO LTD .....	894774	July 26, 1990	Burlington
894780 ONTARIO LIMITED .....	894780	July 30, 1990	Oshawa
894944 ONTARIO LTD. ....	894944	July 23, 1990	Bradford
894945 ONTARIO LIMITED .....	894945	July 23, 1990	Thornton
894951 ONTARIO INC. ....	894951	July 25, 1990	Barrie
894953 ONTARIO INC. ....	894953	July 25, 1990	Orillia
894955 ONTARIO INC. ....	894955	July 26, 1990	Orillia
894960 ONTARIO LTD. ....	894960	July 31, 1990	Collingwood
894966 ONTARIO LTD. ....	894966	Aug. 1, 1990	Newmarket
895042 ONTARIO LIMITED .....	895042	July 20, 1990	St Catharines
895043 ONTARIO INC. ....	895043	July 20, 1990	Niagara Falls
895048 ONTARIO INC. ....	895048	July 23, 1990	Port Colborne
895053 ONTARIO INC. ....	895053	July 25, 1990	St Catharines
895054 ONTARIO LIMITED .....	895054	July 25, 1990	Niagara Falls
895055 ONTARIO LTD. ....	895055	July 25, 1990	Smithville
895058 ONTARIO INC. ....	895058	July 26, 1990	Niagara Falls
895060 ONTARIO INC. ....	895060	July 26, 1990	Welland
895061 ONTARIO INC. ....	895061	July 26, 1990	Wainfleet

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
895062 ONTARIO INC. ....	895062	July 26, 1990	Waterdown
895064 ONTARIO LIMITED .....	895064	July 30, 1990	Niagara Falls
895065 ONTARIO INC. ....	895065	July 31, 1990	Thorold
895069 ONTARIO INC. ....	895069	July 31, 1990	St Catharines
895070 ONTARIO INC. ....	895070	July 31, 1990	Welland
895071 ONTARIO LIMITED .....	895071	July 31, 1990	St Catharines
895550 ONTARIO INC. ....	895550	July 23, 1990	Ottawa
895551 ONTARIO INC. ....	895551	July 23, 1990	Ottawa
895571 ONTARIO INC. ....	895571	July 25, 1990	Ottawa
895572 ONTARIO LTD. ....	895572	July 25, 1990	Ottawa
895573 ONTARIO LTD. ....	895573	July 25, 1990	Ottawa
895575 ONTARIO INC. ....	895575	July 26, 1990	Ottawa
895579 ONTARIO INC. ....	895579	July 26, 1990	Ottawa
895583 ONTARIO INC. ....	895583	July 27, 1990	Gloucester
895584 ONTARIO INC. ....	895584	July 27, 1990	Ottawa
895587 ONTARIO INC. ....	895587	July 27, 1990	Ottawa
895588 ONTARIO INC. ....	895588	July 27, 1990	Ottawa
895590 ONTARIO LTD. ....	895590	July 27, 1990	Cornwall
895594 ONTARIO LIMITED .....	895594	July 30, 1990	Ottawa
895595 ONTARIO INC. ....	895595	Aug. 1, 1990	Ottawa
895596 ONTARIO INC. ....	895596	Aug. 1, 1990	Ottawa
895600 ONTARIO INC. ....	895600	July 30, 1990	Ottawa
895758 ONTARIO INC. ....	895758	July 25, 1990	Sparta
895759 ONTARIO INC. ....	895759	July 25, 1990	London
895763 ONTARIO INC. ....	895763	July 25, 1990	London
895764 ONTARIO LTD. ....	895764	July 25, 1990	Lambeth
895765 ONTARIO LTD. ....	895765	July 25, 1990	St Thomas
895769 ONTARIO LIMITED .....	895769	July 26, 1990	Peterborough
895773 ONTARIO LTD. ....	895773	July 27, 1990	Ingersoll
895781 ONTARIO LIMITED .....	895781	July 30, 1990	London
895790 ONTARIO LIMITED .....	895790	July 31, 1990	London
895793 ONTARIO INC. ....	895793	July 31, 1990	London
895800 ONTARIO LIMITED .....	895800	Aug. 1, 1990	London
897441 ONTARIO INC. ....	897441	July 31, 1990	Lakefield
897442 ONTARIO LTD. ....	897442	July 31, 1990	Thunder Bay
897443 ONTARIO INC. ....	897443	Aug. 1, 1990	Cochenour
898608 ONTARIO INC. ....	898608	July 31, 1990	Ottawa
898610 ONTARIO LTD. ....	898610	July 31, 1990	Ottawa
898611 ONTARIO INC. ....	898611	July 31, 1990	Gloucester
898613 ONTARIO INC. ....	898613	July 31, 1990	Ottawa
898617 ONTARIO LIMITED .....	898617	Aug. 1, 1990	North Gower
898618 ONTARIO INC. ....	898618	Aug. 1, 1990	Arnprior
899287 ONTARIO LIMITED .....	899287	July 18, 1990	St Catharines
900035 ONTARIO LTD. ....	900035	July 23, 1990	Don Mills
900042 ONTARIO INC. ....	900042	July 25, 1990	Burlington
900047 ONTARIO INC. ....	900047	July 26, 1990	Waterdown
900048 ONTARIO INC. ....	900048	July 26, 1990	Burlington
900051 ONTARIO LIMITED .....	900051	July 26, 1990	Hamilton
900055 ONTARIO INC. ....	900055	July 27, 1990	Oakville
900056 ONTARIO INC. ....	900056	July 27, 1990	Burlington
900057 ONTARIO INC. ....	900057	July 27, 1990	Hamilton
900058 ONTARIO INC. ....	900058	July 27, 1990	Mississauga
900060 ONTARIO INC. ....	900060	July 30, 1990	Paris
900061 ONTARIO INC. ....	900061	July 30, 1990	Binbrook
900063 ONTARIO INC. ....	900063	July 30, 1990	Hamilton
900064 ONTARIO LTD. ....	900064	July 30, 1990	Burlington
900066 ONTARIO LTD. ....	900066	July 30, 1990	Hamilton
900073 ONTARIO INC. ....	900073	July 31, 1990	Hamilton
900074 ONTARIO INC. ....	900074	July 31, 1990	Hamilton
900211 ONTARIO LIMITED .....	900211	July 26, 1990	Sudbury
900213 ONTARIO LTD. ....	900213	July 26, 1990	Hanmer
900215 ONTARIO INC. ....	900215	July 27, 1990	Sudbury

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
900218 ONTARIO LTD. ....	900218	July 30, 1990	Sudbury
900219 ONTARIO LIMITED ....	900219	July 30, 1990	Sudbury
900222 ONTARIO INC. ....	900222	July 31, 1990	Kapuskasing
900223 ONTARIO INC. ....	900223	July 31, 1990	Sudbury
900915 ONTARIO LTD. ....	900915	July 23, 1990	Kitchener
900917 ONTARIO LIMITED ....	900917	July 23, 1990	Waterloo
900924 ONTARIO LIMITED ....	900924	July 25, 1990	Kitchener
900925 ONTARIO INC. ....	900925	July 25, 1990	Kitchener
900929 ONTARIO CORPORATION ....	900929	July 26, 1990	Nepean
900930 ONTARIO INCORPORATED ....	900930	July 26, 1990	Nepean
900931 ONTARIO INC. ....	900931	July 26, 1990	Nepean
900932 ONTARIO LTD. ....	900932	July 26, 1990	Nepean
900933 ONTARIO LIMITED ....	900933	July 26, 1990	Nepean
900934 ONTARIO INC. ....	900934	July 26, 1990	Kenilworth
900936 ONTARIO LIMITED ....	900936	July 26, 1990	Waterloo
900938 ONTARIO LIMITED ....	900938	July 26, 1990	Guelph
900939 ONTARIO INC. ....	900939	July 27, 1990	Sebringville
900943 ONTARIO LIMITED ....	900943	July 27, 1990	Brantford
900947 ONTARIO LIMITED ....	900947	July 30, 1990	Waterloo
900948 ONTARIO INC. ....	900948	July 30, 1990	Kitchener
900949 ONTARIO LIMITED ....	900949	July 30, 1990	Stratford
900950 ONTARIO LIMITED ....	900950	July 30, 1990	Stratford
900951 ONTARIO INC. ....	900951	July 30, 1990	Kitchener
900952 ONTARIO INC. ....	900952	July 30, 1990	Kitchener
900954 ONTARIO LIMITED ....	900954	July 31, 1990	Waterloo
900957 ONTARIO INC. ....	900957	July 31, 1990	Cambridge
900961 ONTARIO LIMITED ....	900961	July 31, 1990	Kitchener
902601 ONTARIO INC. ....	902601	July 31, 1990	Bobcaygeon
902602 ONTARIO LIMITED ....	902602	July 31, 1990	Peterborough
903491 ONTARIO INC. ....	903491	July 13, 1990	Deer Lake
903505 ONTARIO INC. ....	903505	July 17, 1990	Kincardine
903506 ONTARIO INC. ....	903506	July 17, 1990	Scarborough
903517 ONTARIO INC. ....	903517	July 18, 1990	Toronto
903518 ONTARIO INC. ....	903518	July 18, 1990	Toronto
903526 ONTARIO INC. ....	903526	July 18, 1990	Caledonia
903528 ONTARIO INC. ....	903528	July 18, 1990	Ottawa
904984 ONTARIO LTD. ....	904984	July 24, 1990	Scarborough
904985 ONTARIO INC. ....	904985	July 24, 1990	Rexdale
904986 ONTARIO INC. ....	904986	July 24, 1990	Rexdale
904988 ONTARIO LIMITED ....	904988	July 24, 1990	Toronto
904990 ONTARIO INC. ....	904990	July 24, 1990	Milton
904998 ONTARIO LIMITED ....	904998	July 24, 1990	Toronto
905000 ONTARIO INC. ....	905000	July 24, 1990	Pickering
905203 ONTARIO LTD. ....	905203	July 31, 1990	Harrow
905204 ONTARIO LTD. ....	905204	July 31, 1990	Kingsville
905206 ONTARIO LTD. ....	905206	July 31, 1990	Windsor
905210 ONTARIO INC. ....	905210	July 31, 1990	Windsor
905213 ONTARIO LIMITED ....	905213	Aug. 1, 1990	St Clair Beach
905607 ONTARIO INC. ....	905607	July 24, 1990	Toronto
905608 ONTARIO LIMITED ....	905608	July 24, 1990	Downsview
905609 ONTARIO LTD. ....	905609	July 24, 1990	Mississauga
905610 ONTARIO INC. ....	905610	July 24, 1990	Toronto
905612 ONTARIO LTD. ....	905612	July 24, 1990	Richmond Hill
905614 ONTARIO LIMITED ....	905614	July 24, 1990	Downsview
905620 ONTARIO LIMITED ....	905620	July 24, 1990	Toronto
905622 ONTARIO LIMITED ....	905622	July 24, 1990	Toronto
905627 ONTARIO LIMITED ....	905627	July 24, 1990	Don Mills
905628 ONTARIO INC. ....	905628	July 24, 1990	Markham
905630 ONTARIO LIMITED ....	905630	July 24, 1990	Toronto
905631 ONTARIO LIMITED ....	905631	July 24, 1990	Toronto
905632 ONTARIO LIMITED ....	905632	July 24, 1990	Toronto
905633 ONTARIO LIMITED ....	905633	July 24, 1990	Toronto



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
905639 ONTARIO INC. ....	905639	July 24, 1990	Willowdale
905649 ONTARIO INC. ....	905649	July 24, 1990	Toronto
905653 ONTARIO LTD. ....	905653	July 24, 1990	Scarborough
905654 ONTARIO INC. ....	905654	July 24, 1990	Toronto
905655 ONTARIO INC. ....	905655	July 24, 1990	Toronto
905658 ONTARIO LIMITED ....	905658	July 24, 1990	Hamilton
905659 ONTARIO LIMITED ....	905659	July 24, 1990	Hamilton
905661 ONTARIO LIMITED ....	905661	July 24, 1990	Scarborough
905663 ONTARIO LIMITED ....	905663	July 24, 1990	Toronto
905665 ONTARIO INC. ....	905665	July 24, 1990	Brampton
905668 ONTARIO LTD. ....	905668	July 24, 1990	Etobicoke
905669 ONTARIO LIMITED ....	905669	July 24, 1990	Toronto
905670 ONTARIO LIMITED ....	905670	July 24, 1990	Scarborough
905675 ONTARIO LIMITED ....	905675	July 24, 1990	Scarborough
905678 ONTARIO LIMITED ....	905678	July 24, 1990	Kirkland Lake
905680 ONTARIO LIMITED ....	905680	July 24, 1990	Etobicoke
905683 ONTARIO LTD. ....	905683	July 24, 1990	Toronto
905684 ONTARIO INC. ....	905684	July 24, 1990	Scarborough
905806 ONTARIO LIMITED ....	905806	July 26, 1990	Aurora
905818 ONTARIO INC. ....	905818	July 26, 1990	Thornhill
905819 ONTARIO LTD. ....	905819	July 26, 1990	Richmond Hill
905834 ONTARIO LIMITED ....	905834	July 26, 1990	Toronto
905835 ONTARIO LIMITED ....	905835	July 26, 1990	Toronto
905836 ONTARIO INC. ....	905836	July 26, 1990	Aurora
905837 ONTARIO LTD. ....	905837	July 26, 1990	Scarborough
905838 ONTARIO LIMITED ....	905838	July 26, 1990	Thornhill
905840 ONTARIO INC. ....	905840	July 26, 1990	Hamilton
905849 ONTARIO INC. ....	905849	July 26, 1990	Aurora
905850 ONTARIO LTD. ....	905850	July 26, 1990	Toronto
905851 ONTARIO LIMITED ....	905851	July 26, 1990	Concord
905853 ONTARIO LIMITED ....	905853	July 26, 1990	Toronto
905856 ONTARIO LTD. ....	905856	July 26, 1990	Toronto
905858 ONTARIO LTD. ....	905858	July 26, 1990	Richmond Hill
905860 ONTARIO LIMITED ....	905860	July 26, 1990	Tecumseh
905861 ONTARIO INC. ....	905861	July 26, 1990	Ajax
905862 ONTARIO INC. ....	905862	July 26, 1990	Mississauga
905863 ONTARIO LIMITED ....	905863	July 26, 1990	Windsor
905864 ONTARIO LIMITED ....	905864	July 26, 1990	Windsor
905867 ONTARIO LIMITED ....	905867	July 26, 1990	Ajax
905870 ONTARIO LIMITED ....	905870	July 26, 1990	Toronto
905871 ONTARIO INC. ....	905871	July 26, 1990	Toronto
905873 ONTARIO INC. ....	905873	July 26, 1990	Gormley
905874 ONTARIO LTD. ....	905874	July 26, 1990	Willowdale
905875 ONTARIO INC. ....	905875	July 26, 1990	Bowmanville
905879 ONTARIO INC. ....	905879	July 26, 1990	Woodstock
905880 ONTARIO INC. ....	905880	July 26, 1990	Don Mills
905881 ONTARIO INC. ....	905881	July 26, 1990	Thornhill
905882 ONTARIO LIMITED ....	905882	July 26, 1990	Windsor
905883 ONTARIO LIMITED ....	905883	July 26, 1990	Windsor
905887 ONTARIO INC. ....	905887	July 27, 1990	Seaforth
905888 ONTARIO INC. ....	905888	July 26, 1990	Nobel
905889 ONTARIO LIMITED ....	905889	July 31, 1990	Scarborough
905898 ONTARIO INC. ....	905898	July 26, 1990	Ignace
905900 ONTARIO LTD. ....	905900	July 26, 1990	Markham
905905 ONTARIO LIMITED ....	905905	July 26, 1990	Maple
905906 ONTARIO LIMITED ....	905906	July 26, 1990	Markham
905907 ONTARIO LIMITED ....	905907	July 26, 1990	Markham
905909 ONTARIO LIMITED ....	905909	July 26, 1990	Brampton
905913 ONTARIO INC. ....	905913	July 26, 1990	Brampton
905914 ONTARIO INC. ....	905914	July 26, 1990	Aurora
905916 ONTARIO INC. ....	905916	July 26, 1990	Stratford
905926 ONTARIO LIMITED ....	905926	July 26, 1990	Thornhill



Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
905927 ONTARIO LIMITED .....	905927	July 26, 1990	Toronto
905928 ONTARIO LIMITED .....	905928	July 26, 1990	Thornhill
905932 ONTARIO INC. ....	905932	July 27, 1990	Markham
905933 ONTARIO INC. ....	905933	July 27, 1990	Brampton
905935 ONTARIO LIMITED .....	905935	July 27, 1990	Oshawa
905936 ONTARIO LIMITED .....	905936	July 27, 1990	Oakville
905937 ONTARIO LIMITED .....	905937	July 27, 1990	Oakville
905940 ONTARIO INC. ....	905940	July 27, 1990	Oakville
905944 ONTARIO LIMITED .....	905944	July 27, 1990	Scarborough
905945 ONTARIO LIMITED .....	905945	July 27, 1990	Scarborough
905946 ONTARIO LTD. ....	905946	July 27, 1990	Scarborough
905950 ONTARIO LIMITED .....	905950	Aug. 1, 1990	Downsview
905951 ONTARIO LTD. ....	905951	July 27, 1990	Weston
905952 ONTARIO INC. ....	905952	July 27, 1990	Don Mills
905953 ONTARIO INC. ....	905953	July 27, 1990	North York
905957 ONTARIO LIMITED .....	905957	July 27, 1990	Don Mills
905960 ONTARIO LTD. ....	905960	July 27, 1990	Guelph
905964 ONTARIO INC. ....	905964	July 27, 1990	Guelph
905969 ONTARIO INC. ....	905969	July 27, 1990	Toronto
905971 ONTARIO INC. ....	905971	July 27, 1990	Toronto
905975 ONTARIO LIMITED .....	905975	July 27, 1990	Toronto
905978 ONTARIO LIMITED .....	905978	July 27, 1990	Scarborough
905980 ONTARIO LIMITED .....	905980	July 27, 1990	Toronto
905984 ONTARIO LIMITED .....	905984	July 27, 1990	Toronto
905992 ONTARIO INC. ....	905992	July 27, 1990	Toronto
905994 ONTARIO LIMITED .....	905994	July 27, 1990	Mississauga
905995 ONTARIO LIMITED .....	905995	July 27, 1990	Brampton
905996 ONTARIO LIMITED .....	905996	July 27, 1990	Mississauga
906201 ONTARIO LIMITED .....	906201	July 27, 1990	Scarborough
906202 ONTARIO LIMITED .....	906202	July 27, 1990	Don Mills
906205 ONTARIO INC. ....	906205	July 27, 1990	Clinton
906206 ONTARIO LTD. ....	906206	July 27, 1990	Mississauga
906212 ONTARIO INC. ....	906212	July 27, 1990	Burlington
906213 ONTARIO INC. ....	906213	July 27, 1990	Burlington
906215 ONTARIO LIMITED .....	906215	July 27, 1990	Toronto
906216 ONTARIO LIMITED .....	906216	July 27, 1990	Toronto
906221 ONTARIO LIMITED .....	906221	July 27, 1990	Toronto
906228 ONTARIO INC. ....	906228	July 27, 1990	Toronto
906229 ONTARIO INC. ....	906229	July 27, 1990	Toronto
906236 ONTARIO LIMITED .....	906236	July 27, 1990	Brampton
906241 ONTARIO INC. ....	906241	July 27, 1990	Toronto
906242 ONTARIO LTD. ....	906242	July 27, 1990	Toronto
906246 ONTARIO LIMITED .....	906246	July 27, 1990	North York
906253 ONTARIO LIMITED .....	906253	July 30, 1990	Toronto
906254 ONTARIO LIMITED .....	906254	July 30, 1990	Toronto
906255 ONTARIO LIMITED .....	906255	July 30, 1990	Toronto
906256 ONTARIO LIMITED .....	906256	July 30, 1990	Toronto
906257 ONTARIO LIMITED .....	906257	July 30, 1990	Toronto
906258 ONTARIO LIMITED .....	906258	July 30, 1990	Toronto
906260 ONTARIO INC. ....	906260	Aug. 1, 1990	Toronto
906263 ONTARIO INC. ....	906263	July 30, 1990	North York
906268 ONTARIO LIMITED .....	906268	July 30, 1990	Don Mills
906272 ONTARIO LTD. ....	906272	July 30, 1990	Brampton
906277 ONTARIO INC. ....	906277	July 30, 1990	Toronto
906288 ONTARIO INC. ....	906288	July 30, 1990	Etobicoke
906294 ONTARIO INC. ....	906294	July 30, 1990	Scarborough
906298 ONTARIO INC. ....	906298	July 30, 1990	Vermilion Bay
906299 ONTARIO LIMITED .....	906299	July 30, 1990	Mississauga
906309 ONTARIO LTD. ....	906309	July 30, 1990	Cornwall
906315 ONTARIO LIMITED .....	906315	July 30, 1990	Kitchener
906318 ONTARIO LIMITED .....	906318	July 30, 1990	Mississauga
906319 ONTARIO INC. ....	906319	July 30, 1990	Oakville

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
906322 ONTARIO LTD. ....	906322	July 30, 1990	Rexdale
906325 ONTARIO INC. ....	906325	July 30, 1990	Scarborough
906326 ONTARIO INC. ....	906326	July 30, 1990	Don Mills
906327 ONTARIO INC. ....	906327	July 30, 1990	Downsview
906330 ONTARIO LIMITED .....	906330	July 30, 1990	Toronto
906333 ONTARIO LIMITED .....	906333	July 30, 1990	Huntsville
906348 ONTARIO LIMITED .....	906348	July 30, 1990	Toronto
906369 ONTARIO INC. ....	906369	July 31, 1990	Kettleby
906370 ONTARIO INC. ....	906370	July 31, 1990	Kettleby
906374 ONTARIO INC. ....	906374	July 31, 1990	Mississauga
906380 ONTARIO INC. ....	906380	July 31, 1990	Richmond Hill
906390 ONTARIO INC. ....	906390	July 31, 1990	Burlington
906393 ONTARIO INC. ....	906393	July 31, 1990	Scarborough
906604 ONTARIO LTD. ....	906604	July 31, 1990	North York
906610 ONTARIO INC. ....	906610	July 31, 1990	Weston
906615 ONTARIO LIMITED .....	906615	July 31, 1990	Don Mills
906617 ONTARIO LIMITED .....	906617	July 31, 1990	Downsview
906620 ONTARIO LIMITED .....	906620	July 31, 1990	Downsview
906625 ONTARIO INC. ....	906625	July 31, 1990	Thornhill
906626 ONTARIO CORPORATION .....	906626	July 31, 1990	Toronto
906630 ONTARIO INC. ....	906630	July 31, 1990	Toronto
906635 ONTARIO INC. ....	906635	July 31, 1990	Ajax
906636 ONTARIO LIMITED .....	906636	July 31, 1990	Toronto
906637 ONTARIO LIMITED .....	906637	July 31, 1990	Markham
906638 ONTARIO INC. ....	906638	July 31, 1990	Willowdale
906639 ONTARIO INC. ....	906639	July 31, 1990	Owen Sound
906644 ONTARIO INC. ....	906644	July 31, 1990	Toronto
906646 ONTARIO LIMITED .....	906646	July 31, 1990	Oakville
906648 ONTARIO LIMITED .....	906648	July 31, 1990	Mississauga
906653 ONTARIO INC. ....	906653	July 31, 1990	Toronto
906656 ONTARIO LIMITED .....	906656	July 31, 1990	North York
906673 ONTARIO INC. ....	906673	July 31, 1990	Toronto
906674 ONTARIO INC. ....	906674	July 31, 1990	Etobicoke
906676 ONTARIO INC. ....	906676	July 31, 1990	Toronto
906687 ONTARIO LIMITED .....	906687	July 31, 1990	Toronto
906691 ONTARIO INC. ....	906691	Aug. 1, 1990	Don Mills
906694 ONTARIO LIMITED .....	906694	Aug. 1, 1990	Toronto
906708 ONTARIO LIMITED .....	906708	Aug. 1, 1990	Mississauga
906709 ONTARIO LIMITED .....	906709	Aug. 1, 1990	Brampton
906710 ONTARIO LTD. ....	906710	Aug. 1, 1990	Gravenhurst
906711 ONTARIO INC. ....	906711	Aug. 1, 1990	Toronto
906713 ONTARIO LTD. ....	906713	Aug. 1, 1990	Rexdale
906716 ONTARIO INC. ....	906716	Aug. 1, 1990	Toronto
906718 ONTARIO LIMITED .....	906718	Aug. 1, 1990	Toronto
906724 ONTARIO INC. ....	906724	Aug. 1, 1990	Mississauga
906729 ONTARIO LIMITED .....	906729	Aug. 1, 1990	North York
906736 ONTARIO LIMITED .....	906736	Aug. 1, 1990	Toronto
906737 ONTARIO INC. ....	906737	Aug. 1, 1990	Richmond Hill
906746 ONTARIO LIMITED .....	906746	Aug. 1, 1990	Weston
906750 ONTARIO INC. ....	906750	Aug. 1, 1990	Brampton
906752 ONTARIO LIMITED .....	906752	Aug. 1, 1990	Owen Sound
906754 ONTARIO INC. ....	906754	Aug. 1, 1990	Toronto
906755 ONTARIO INC. ....	906755	Aug. 1, 1990	North York
906762 ONTARIO INC. ....	906762	Aug. 1, 1990	Owen Sound
906763 ONTARIO LIMITED .....	906763	Aug. 1, 1990	Islington
906764 ONTARIO INC. ....	906764	Aug. 1, 1990	North York
906767 ONTARIO INC. ....	906767	Aug. 1, 1990	Toronto
906768 ONTARIO INC. ....	906768	Aug. 1, 1990	Gormley
906771 ONTARIO LIMITED .....	906771	Aug. 1, 1990	Toronto
906778 ONTARIO INC. ....	906778	Aug. 1, 1990	Toronto
906780 ONTARIO INC. ....	906780	Aug. 1, 1990	Toronto
906781 ONTARIO INC. ....	906781	Aug. 1, 1990	Scarborough

Name of Corporation	Ontario Corp. No.	Date of Incorporation	Registered Office
906833 ONTARIO INC. ....	906833	Aug. 2, 1990	Willowdale
906834 ONTARIO INC. ....	906834	Aug. 2, 1990	Mississauga
906837 ONTARIO INC. ....	906837	Aug. 2, 1990	Hamilton
906873 ONTARIO INC. ....	906873	Aug. 2, 1990	Hamilton
906875 ONTARIO LIMITED .....	906875	Aug. 2, 1990	Willowdale
906883 ONTARIO LIMITED .....	906883	Aug. 2, 1990	Richmond Hill
906886 ONTARIO INC. ....	906886	Aug. 2, 1990	Mississauga
906887 ONTARIO LTD. ....	906887	Aug. 2, 1990	Mississauga

DIANE S. NAGEL,  
Director, Companies Branch.

## Certificates of Amalgamation/Certificats de fusion

NOTICE IS HEREBY GIVEN that a certificate of amalgamation under the *Business Corporations Act*, 1982 has been endorsed:

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date	Names of Amalgamating Corporations
AEROCOM INSPECTION SERVICE LIMITED .....	906616	July 31, 1990	883113 Ontario Ltd. Aerocom Inspection Service Limited
ALEX MCDONALD REAL ESTATE COMPANY LIMITED .....	906266	July 31, 1990	Alex McDonald Real Estate Company Limited Alex McDonald Construction Services Ltd.
ALOETTE COSMETICS OF KITCHENER/WATERLOO INC. ....	900969	Aug. 1, 1990	Aloette Cosmetics of Kitchener/Waterloo Inc. 900952 Ontario Inc.
ALOUETTE TRANSPORTATION LTD.	906344	July 31, 1990	Alouette Transportation Ltd. Bourre Bus Lines Ltd.
ATOMA INTERNATIONAL INC. ....	906663	Aug. 1, 1990	Atoma International Inc. Modu-Tronics Inc. Dominion Spring Industries Inc. Poulsen Industries Inc. 836114 Ontario Inc. BCL Magnetics Limited 836113 Ontario Inc. Invotek Instruments Inc.
AVENUE TRAVEL SERVICE LIMITED .....	906717	Aug. 1, 1990	Stelytod Inc. Avenue Travel Service Limited
B & D INSULATION LIMITED .....	876737	July 31, 1990	B & D Insulation Limited 338471 Ontario Limited
BERTLINTO CONSTRUCTION COMPANY LIMITED .....	906622	July 31, 1990	Bertlinto Construction Company Limited Sorpaul Trading Limited
THE BRANDY TREE SHOPPES INC. ..	895792	July 31, 1990	865542 Ontario Limited The Brandy Tree Shoppes Inc.
BRUNSWICK MANUFACTURING COMPANY LIMITED .....	906265	July 31, 1990	Brunswick Manufacturing Company Limited Brunswick Marketing Inc.



Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
C. & T. H. INVESTMENTS LIMITED ..	906387	July	31, 1990	101368 Ontario Limited C. & T. H. Investments Limited
CANADMIN LIMITED .....	898619	Aug.	1, 1990	Rideaupship Group Limited Canadmin Limited
CANDYM ENTERPRISES LTD. ....	904811	Aug.	1, 1990	Candym Enterprises Ltd. 534601 Ontario Limited 534602 Ontario Limited
COMMERCIAL TOOL & DIE LTD. ....	906649	Aug.	1, 1990	Commercial Tool & Die Ltd. 863733 Ontario Limited
THE DAIRY CASE CONVENIENCE STORES LIMITED .....	895795	July	31, 1990	825152 Ontario Limited Wilro Limited Charturk Inc. The Dairy Case Convenience Stores Limited
DIEMACO (1984) INC. ....	906291	Aug.	1, 1990	Diemaco (1984) Inc. Hermes IV Limited
DATAPORT LIMITED .....	906642	July	31, 1990	Dataport Limited Milnis Investments Limited 863445 Ontario Limited
DIEOMATIC METAL PRODUCTS LIMITED .....	906613	July	31, 1990	Dieomatic Metal Products Limited 730146 Ontario Inc.
DOW'S AUTO ELECTRIC LIMITED ...	897438	July	31, 1990	Dow's Auto Electric Limited Kim Harrison Equipment Services Ltd.
ERIN MEADOWS TRAVEL LTD. ....	905751	Aug.	1, 1990	Erin Meadows Travel Ltd. Hesson Travel Limited
FIELDGATE PHARMACY LIMITED ..	906787	Aug.	2, 1990	Fieldgate Pharmacy Limited 905609 Ontario Ltd.
FINAMORONT HOLDINGS INC. ....	906654	July	31, 1990	Finamoront Holdings Inc. Sandalion Investments Ltd.
FRONTENAC LEASEHOLDS LIMITED	883576	July	30, 1990	561913 Ontario Ltd. 561839 Ontario Ltd. Frontenac Leaseholds Limited
G. A. HARDIE & CO., LIMITED .....	906399	July	31, 1990	Argand Holdings Ltd. G. A. Hardie & Co., Limited 685144 Ontario Limited 653361 Ontario Limited
GAALCO INVESTMENTS LIMITED ...	906386	Aug.	1, 1990	Gaalco Investments Limited 559015 Ontario Inc.
GEORGE W. TINDALL LIMITED .....	905707	Aug.	1, 1990	Bel-Ray Canada Inc. H & D Holdings Ltd. George W. Tindall Limited
GREGORY'S OF STRATHROY LIMITED .....	900405	Aug.	1, 1990	Gregory's of Strathroy Limited 848059 Ontario Limited
GROWLTIGER INC. ....	906243	July	30, 1990	Growltiger Inc. M & B Financial Corporation
HARDCRAFT INDUSTRIES LIMITED	905985	July	31, 1990	Hardcraft Industries Limited Three Point Enterprises Ltd.
HAY MANAGEMENT CONSULTANTS LIMITED HAY, CONSEILLERS EN ADMINISTRATION LIMITEE .....	906679	July	31, 1990	Hay Group (Canada) Ltd. Hay Management Consultants Limited Hay, Conseillers en Administration Limitee



Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
HERONBROOK FARM LIMITED .....	895749	July	31, 1990	Heronbrook Farm Limited 555255 Ontario Limited
HI-LIFT LIMITED .....	900067	July	30, 1990	843894 Ontario Limited Hi-Lift Limited
HUNT INSURANCE BROKERS LIMITED .....	906308	Aug.	1, 1990	Hunt Insurance Brokers Limited Elizabeth Warner Insurance Brokers Inc.
INTERFAST INC. ....	906698	Aug.	1, 1990	Interfast Inc. Toronto Fastener Industries Inc.
IRWIN HARDWARE CO. LIMITED ....	904967	July	31, 1990	Irwin Hardware Co. Limited LZRK Investments Ltd. 868023 Ontario Inc.
JEDRON SOFTWARE INC. ....	906703	Aug.	1, 1990	Jedron Software Inc. Weldpak Inc.
JILCO REALTY GROUP LTD. ....	906376	Aug.	1, 1990	Jilco Realty Group Ltd. 632010 Ontario Limited
JOHNKAREL INVESTMENTS INC. ....	905209	Aug.	1, 1990	Johnkarel Investments Inc. Forbys Managements Limited
JOYTI LIMITED .....	894787	Aug.	1, 1990	546881 Ontario Limited 584997 Ontario Limited Joyti Enterprises Limited
KAIMAN FOOD SERVICES LTD. ....	906682	Aug.	1, 1990	Kaiman Food Services Ltd. Kaiman Publishing Inc. Lucky Diversions Ltd.
KENNEY CONSULTANTS INC. ....	906641	July	31, 1990	Kenney Consultants Inc. 828787 Ontario Limited 824324 Ontario Limited
KOOLRAD DESIGN AND MANUFACTURING COMPANY INC.	894785	Aug.	1, 1990	Koolrad Design and Manufacturing Company Inc. Koolrad Holdings Limited
L.O.C. FOODS INCORPORATED .....	900070	July	31, 1990	L.O.C. Foods Incorporated 516374 Ontario Inc.
LAWRENCE A. BRENZEL LIMITED ..	906379	July	31, 1990	Lawrence A. Brenzel Limited L. A. Brenzel Securities Limited
LEISUREWAYS LTD. ....	906657	Aug.	1, 1990	Leisureways Business Corporation Leisureways Ltd.
LISAN CONSTRUCTION COMPANY LTD. ....	906602	July	31, 1990	Lisan Construction Company Ltd. Landway Developments Limited
LRB-SOUTHWESTERN GRAPHIC SUPPLIES INC. ....	895782	July	31, 1990	LRB-Southwestern Graphic Supplies Inc. 829863 Ontario Limited
LUXOR EXPLORATIONS INC. ....	905912	Aug.	1, 1990	Luxor Explorations Inc. Bluestack Resources Limited
MCRICHTAG HOLDINGS LIMITED ...	895527	July	31, 1990	579110 Ontario Limited McRichtag Holdings Limited
MOCO CANADA INC. ....	906302	July	31, 1990	Moco Canada Inc. Moco Calgary Inc. Moco SW Ontario Inc. Moco Toronto Inc. Moco Vancouver Communications Inc.

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
				Logicom Inc.
MOTION PICTURE VIDEO CORPORATION .....	906677	July	31, 1990	Motion Picture Video Corporation CAV Productions Incorporated
NEEDHAMS SPORTS AND MARINE CENTRE LIMITED .....	876739	Aug.	1, 1990	Needhams Sports and Marine Centre Limited Thornbroom Limited
NEWSNCA, INC. ....	906726	Aug.	1, 1990	Newsnca, Inc. S.W.D.S. Inc.
NOR-AM PATIENT CARE PRODUCTS LIMITED .....	906869	Aug.	2 1990	871920 Ontario Limited Nor-Am Patient Care Products Limited
NORSTAR RELEASING INC. ....	905988	July	31, 1990	Norstar Releasing Inc. Norstar Home Video Inc.
NUCAN TRAVEL CORPORATION .....	906769	Aug.	1, 1990	Nucan Travel Corporation Randle Travel Services Ltd.
ORILLIA PHARMACY LIMITED .....	900403	Aug.	1, 1990	895661 Ontario Inc. Orillia Pharmacy Limited
P.S. SHOP AT HOME FOOD SERVICE INC. ....	906385	Aug.	1, 1990	635070 Ontario Limited 635071 Ontario Limited 833767 Ontario Inc. 883627 Ontario Inc. P.S. Shop At Home Food Service Inc.
PARKWAY REALTY LIMITED .....	906783	Aug.	1, 1990	Parkway Realty Limited Duncanwood Manor Limited Hillock Investments Limited
PAUL'S JEWELLERY COMPANY LIMITED .....	906621	July	31, 1990	Paul's Jewellery Company Limited Jara Investments Limited
PEELCO INDUSTRIES INC. ....	906782	Aug.	1, 1990	Peelco Industries Inc. Newcomp Solutions Inc. Keldco Machine Works Limited
PETLEY-HARE LIMITED .....	894783	Aug.	1, 1990	Petley-Hare Limited Roger D. Richard Insurance Inc.
PINE RIDGE PACKERS INCORPORATED .....	894786	Aug.	1, 1990	Nor-Har Holdings Limited Pine Ridge Packers Incorporated
PLACIDO GRI COMPANY LIMITED ..	906652	July	31, 1990	Placido Gri Company Limited Lakeshore Plaza Limited
PRO-TECH INDUSTRIAL GROUP INC. ....	900963	Aug.	1, 1990	Pro-Tech Industrial Services Inc. A & I Inspection Services Limited
R.D. NICHOLSON HOLDINGS LIMITED .....	904593	Aug.	1, 1990	R.D. Nicholson Holdings Limited 535694 Ontario Limited

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
R.J. BURNSIDE & ASSOCIATES LIMITED .....	906350	July	31, 1990	R.J. Burnside & Associates Limited Uderstadt Burnside Ltd.
RAMPAGE BUILDING INC. ....	906749	Aug.	1, 1990	Rampage Building Inc. Peps Hardware Limited
REBANTA HOLDINGS INC. ....	906662	Aug.	1, 1990	Rebanta Holdings Inc. Uxbridge Golf Course Limited Tavian Estates Ltd.
RETAIL MEDIA INC. ....	906292	July	31, 1990	Retail Media Inc. Media Cube Inc.
ROSNY HOLDINGS LIMITED .....	906378	Aug.	1, 1990	Rosny Holdings Limited Champion Road Machinery Group Limited Champion Road Machinery Marketing Ltd.
ROYCE METAL PRODUCTS LIMITED	906365	July	31, 1990	Royce Metal Products Limited Aero-Spin Inc. 532491 Ontario Limited
RYBERG HOLDINGS LIMITED .....	900945	Aug.	1, 1990	Ryberg Holdings Limited 462214 Ontario Inc.
SCAN ELECTRIC LIMITED .....	906373	Aug.	1, 1990	Scan Electric Limited Nacs Electric Limited Ranchdale Estates Limited
SERVEX COMPUTERS INC. ORDINATEURS SERVEX INC. ....	906732	Aug.	1, 1990	Servex Computers Inc. Ordinateurs Servex Inc. Q. I. C. Research Inc.
SILVER MAPLE HOLDINGS LIMITED	906601	July	31, 1990	Silver Maple Holdings Limited Centrocan Investments Limited
SIPCO OIL LIMITED .....	906707	Aug.	1, 1990	Sipco Oil Limited 319355 Ontario Limited
SKLAR-PEPPLER FURNITURE CORPORATION .....	906681	July	31, 1990	903060 Ontario Limited Sklar-Peppler Inc.
SORRENTO JEWELLERS LIMITED ....	906643	July	31, 1990	Sorrento Jewellers Limited Karaud Management & Holdings Limited
SOUTHERN SANITATION INC. ....	906773	Aug.	1, 1990	Southern Sanitation Inc. 559288 Ontario Limited Deniz Freire Disposal Services Inc.
STEPHENSON'S RENT-ALL INC. ....	906680	July	31, 1990	903061 Ontario Limited 901600 Ontario Inc. Stephenson's Rent-All Inc.
STOMPIN' TOM LIMITED .....	903173	July	31, 1990	Stompin' Tom Limited Crown-Vetch Music Limited
T.&K. INVESTMENTS LIMITED .....	906624	July	31, 1990	Tifrow Enterprises Limited T.&K. Investments Limited
T.T.S. HOLDINGS INC. ....	898607	July	31, 1990	T.T.S. Holdings Inc. Boilmart Holdings (Timmins) Ltd. Timmins Tire Sales Ltd.
TACEY SHOES LIMITED .....	898612	Aug.	1, 1990	I.J. Wolfe Holdings Ltd. Ted Wolfe Holdings Ltd. Tacey Shoes Limited

Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date		Names of Amalgamating Corporations
TIMMINS TIRE SALES LIMITED .....	898620	Aug.	1, 1990	Timmins Tire Sales Limited Timmins Tire Sales Retread Division Ltd.
TRADEWINDS MOTOR HOTELS INC.	881783	Aug.	1, 1990	Tradewinds Motor Hotels Inc. Pioneer Park Investments Limited
TRENTWAY-WAGAR (PROPERTIES) INC. ....	906672	July	31, 1990	866733 Ontario Inc. Trentway-Wagar (Properties) Inc.
UNIMAC MACHINE & MANUFACTURING LIMITED .....	876738	Aug.	1, 1990	Unimac Machine & Manufacturing Limited 726598 Ontario Inc.
VENTURE CARPETS (ONTARIO) LIMITED .....	906383	July	31, 1990	Venture Carpets (Ontario) Limited Cross Can Agencies Inc. Virk Poultry Farms Inc. 609970 Ontario Ltd.
VIRK POULTRY FARMS INC. ....	906307	July	31, 1990	W.B. Hartshorne Inc. High Precision Brass Limited
W.B. HARTSHORNE INC. ....	906826	Aug.	2, 1990	
WATERLOO MEDICAL BUILDING (1990) LIMITED .....	900964	Aug.	1, 1990	900890 Ontario Inc. Waterloo Medical Building Limited
WINWEST ENTERPRISES LTD. ....	893200	Aug.	1, 1990	Winwest Enterprises Ltd. Tecumseh Lumber Square Inc. Windsor Drywall (Windsor) Inc.
YORKWOODS MOTORS LIMITED .....	906286	Aug.	1, 1990	373878 Ontario Limited Yorkwoods Motors Limited
YUBA AMERICAN GOLD, LTD. ....	906734	Aug.	1, 1990	Yuba American Gold, Ltd. 895299 Ontario Limited
883577 ONTARIO CORPORATION .....	883577	July	31, 1990	548039 Ontario Corporation Ron McAdoo Piano & Organ Co. Limited McAdoo Piano & Organ Co. (Belleville) Ltd.
895591 ONTARIO LIMITED .....	895591	July	27, 1990	National News Company Limited Daughterco Limited
900013 ONTARIO INC. ....	900013	Aug.	1, 1990	121615 Ontario Inc. 574162 Ontario Inc.
900955 ONTARIO LIMITED .....	900955	July	31, 1990	510126 Ontario Limited Hoppy Copy Centres Inc.
906361 ONTARIO LIMITED .....	906361	Aug.	1, 1990	901866 Ontario Inc. 350064 Ontario Limited
906368 ONTARIO INC. ....	906368	July	31, 1990	785556 Ontario Inc. Custance Funeral Home Limited
906692 ONTARIO INC. ....	906692	Aug.	1, 1990	878786 Ontario Inc. 878785 Ontario Inc. 878784 Ontario Inc. 824256 Ontario Inc. 847246 Ontario Inc. 632247 Ontario Inc. 632248 Ontario Inc.



Name of Amalgamated Corporation	Ontario Corp. No.	Effective Date	Names of Amalgamating Corporations
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632249 Ontario Inc.

DIANE S. NAGEL,  
Director, Companies Branch.

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## Certificates of Continuance/Certificats de prorogation

NOTICE IS HEREBY GIVEN that a certificate of continuance under the *Business Corporations Act, 1982* has been endorsed:

Name of Corporation	Ontario Corp. No.	Effective Date	Registered Office
CARWOOD DEVELOPMENTS LTD. ....	906031	July 31, 1990	Waterloo
CARWOOD LEASEHOLDS INC. ....	906030	July 31, 1990	Waterloo
HARDCRAFT INDUSTRIES LIMITED ....	396746	July 23, 1990	Markham
HERMES IV LIMITED (formerly Hermes Electronics Limited) .....	906261	July 31, 1990	Toronto
MOCO CALGARY INC. ....	906006	July 26, 1990	Pickering
MOCO VANCOUVER COMMUNICATIONS INC. ....	906007	July 26, 1990	Pickering
Q. I. C. RESEARCH INC. ....	662328	July 31, 1990	Oakville

DIANE S. NAGEL,  
Director, Companies Branch.

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## Transfer of Ontario Corporations Transfert de compagnies ontariennes

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act, 1982*, an authorization to make an application for an instrument of continuance outside Ontario, has been given to:

Name of Corporation	Ontario Corp. No.	Effective Date	Jurisdiction Where Applying
KILIAN MANUFACTURING LIMITED .....	116558	July 31, 1990	Canada
CENTRALIZED INSURANCE MANAGEMENT LIMITED .....	137019	July 31, 1990	Canada

DIANE S. NAGEL,  
Director, Companies Branch.

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## Amendments to Articles/Modifications aux statuts

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act, 1982*, amendments to articles have been effected as follows:

Name of Corporation	Ontario Corp. No.	Effective Date
ALEX HENRY & SON LIMITED .....	91709	Aug. 2, 1990
ALMORE TRADING & MANUFACTURING COMPANY LIMITED ....	137084	July 31, 1990
ALTA ELECTRONICS INC. ....	541546	Aug. 2, 1990
ARCO TRUCK LEASE LIMITED .....	125843	Aug. 2, 1990
ARLEQUIN FOODS INC. ....	584840	Aug. 1, 1990
ASTRA CANADA LIMITED (formerly Astra Pyrotechnics Canada Limited) .....	640901	Aug. 1, 1990
AUSTIN, JONES INSURANCE BROKERS LTD. (formerly John J. Austin Limited) .....	101391	July 31, 1990
BAITECH RESPIRATORY SYSTEMS INC. ....	904749	July 31, 1990
BARRIE RENT-ALL INC. ....	499582	July 31, 1990
BRAZTEK LIMITED .....	894401	July 31, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
BROWNCO INVESTMENTS INC. (formerly 884076 Ontario Limited) .....	884076	July 31, 1990
BRYANT TRAILER SERVICES INC. ....	558902	Aug. 1, 1990
CADOGAN CORPORATION (formerly Cadogan Capital Corporation) ....	816494	July 31, 1990
CAERAN - CARING AND ENVIRONMENTALLY RESPONSIBLE AND NUTURING INCORPORATED (formerly Kids Ware Inc.) .....	757784	July 31, 1990
CAMPBELL AND MOORE INSURANCE BROKERS LTD. ....	85812	July 27, 1990
CANADMIN PROPERTIES LIMITED .....	866533	Aug. 1, 1990
CASLINGTON HOLDINGS INC. ....	281170	Aug. 1, 1990
CENTURY CIRCUITS INC. (formerly Camptech Circuits Inc.) .....	454776	Aug. 1, 1990
CHAMPION ROAD MACHINERY MARKETING LTD. ....	429674	July 31, 1990
CHAMPION ROAD MACHINERY GROUP LIMITED .....	429675	July 31, 1990
CHATEAU CANADA INC. (formerly 903793 Ontario Inc.) .....	903793	July 31, 1990
CHERNISH TRUCKING LIMITED .....	213422	July 27, 1990
COALITION MERCHANDISING LIMITED (formerly Wolf Hassel Productions Limited) .....	714422	Aug. 1, 1990
COLLINGWOODLANDS DEVELOPMENTS INC. (formerly 569763 Ontario Limited) .....	569763	July 31, 1990
CUTTING TECHNOLOGY INC. (formerly Kuris (Canada) Limited) .....	845931	Aug. 2, 1990
THE DANCIN S'KOOL INC. (formerly 878168 Ontario Inc.) .....	878168	Aug. 1, 1990
DECO AUTOMOTIVE INC. ....	710728	Aug. 1, 1990
DEEM CONTROLS INCORPORATED .....	533212	July 31, 1990
DMB INVESTMENTS LIMITED .....	62400	Aug. 2, 1990
DOMINION MASONRY SYSTEMS INC. ....	677954	July 31, 1990
EDWARD SARSON PRODUCTIONS INC. ....	766859	Aug. 1, 1990
EMPRESS PROVIDENTIAL CORPORATION (formerly 903181 Ontario Inc.) .....	903181	Aug. 1, 1990
FAIRBANK PARK INC. (formerly 837620 Ontario Limited) .....	837620	Aug. 1, 1990
FINCH-MAIN GARDENS (WEST) LIMITED .....	112476	Aug. 1, 1990
FITZGERALD HOLDINGS LIMITED .....	131099	July 30, 1990
FORMOSA INVESTMENTS INC. (formerly 639552 Ontario Ltd.) .....	639552	July 31, 1990
FRANK'S JEWELLERS LIMITED .....	534961	July 31, 1990
GLORY-G MANAGEMENT CORP. ....	695793	Aug. 2, 1990
GOSS, GILROY & ASSOCIATES LTD. ....	486804	July 27, 1990
GRACIOUS LIVING INDUSTRIES INC. (formerly 831775 Ontario Limited) .....	831775	Aug. 2, 1990
GREEN-ISLE PROPERTY MANAGEMENT LIMITED (formerly 765288 Ontario Inc.) .....	765288	July 31, 1990
GREENSTRIPE HOLDINGS INC. ....	829536	Aug. 1, 1990
GUARDIAN AMERICAN EQUITY FUND LTD. FONDS D'ACTIONS AMERICAINES GUARDIAN LTEE (formerly Guardian American Equity Fund Ltd.) .....	584230	Aug. 1, 1990
HAMMERSON PROPERTIES INC. (formerly Hammerson Mississauga Inc.) .....	752957	July 31, 1990
HANSA FINANCIAL & CORPORATE MANAGEMENT INC. ....	288675	Aug. 1, 1990
HAZCON SERVICES INC. (formerly 804601 Ontario Inc.) .....	804601	July 31, 1990
HIGHLINE PRODUCE LIMITED .....	114281	July 30, 1990
HOMEOWNERS EMERGENCY LIST OF PROFESSIONALS INC. (formerly Cars 2 Clean Inc.) .....	888805	Aug. 2, 1990
HURLEY-CARRAIGE HOLDINGS LIMITED .....	453150	Aug. 1, 1990
HYDRO SILICA EQUIPMENT LIMITED .....	122417	July 27, 1990
IDEAL DRAIN TILE LIMITED .....	490849	July 31, 1990
IMAGE INVESTMENTS INC. (formerly Brad's Leasing Inc.) .....	495148	July 30, 1990
INTERTECHNIQUE HAIR SALONS FOR MEN INC. ....	521763	July 31, 1990
J.G. FITZGERALD & SONS LIMITED .....	109207	July 30, 1990
JADECORP RESTAURANTS LIMITED .....	515151	July 30, 1990
JEFFREY M. WHITE HOLDINGS INC. (formerly 874272 Ontario Inc.) ..	874272	Aug. 2, 1990
JM PRINTING LTD. (formerly 900003 Ontario Inc.) .....	900003	July 31, 1990
KARLOU INC. ....	275397	July 31, 1990
KEANN INC. (formerly 785698 Ontario Ltd.) .....	785698	Aug. 1, 1990
KELSEY'S RESTAURANT (BURLINGTON) LIMITED (formerly Kelsey's Road House (Burlington) Ltd.) .....	839930	July 31, 1990
KEMTEK METALS PROCESS INC. ....	837313	July 31, 1990

Name of Corporation	Ontario Corp. No.	Effective Date
KODY ELECTRIC LTD. (formerly Kody Management Consultants Ltd.)	412869	Aug. 1, 1990
KOSTUCH COMMUNICATIONS INC. (formerly 833123 Ontario Inc.)	833123	July 31, 1990
L & OD PUBLISHING INC. (formerly 904790 Ontario Limited)	904790	Aug. 1, 1990
L. P. ANDERSON MFG., LTD.	345693	July 31, 1990
LEISUREWAYS LTD.	365553	July 31, 1990
LISCO DESIGN GRAPHICS INC. (formerly R.R.S. Design Graphics Inc.)	716066	Aug. 1, 1990
LITOVCHIK INDUSTRIES INC.	660943	Aug. 1, 1990
LIV CANADA LIMITED	290006	Aug. 1, 1990
THE LIV GROUP INCORPORATED	378661	Aug. 2, 1990
MACLEAN HUNTER LIMITED	547884	July 31, 1990
THE MARSHALL PLAN TELEVISION INC. (formerly The Marshall Murphy Corporation)	829520	July 31, 1990
MASTROMONACO PHOTOGRAPHY INC.	624782	July 31, 1990
THE MICHA GROUP INC. (formerly Tibor Antal Holdings Inc)	793474	July 31, 1990
MILLER'S AUTO RECYCLING INC.	593369	July 27, 1990
MR. HANDY CONSTRUCTION INC. (formerly 745347 Ontario Inc.)	745347	July 31, 1990
MR. RECYCLING INC. (formerly 735244 Ontario Inc.)	735244	Aug. 1, 1990
NATIONAL NEWS CO. LTD. (formerly 904972 Ontario Limited)	904972	Aug. 1, 1990
NEUWAY SANITATION PRODUCTS INC.	799452	Aug. 1, 1990
NINE BROCKHOUSE ROAD LIMITED	120983	Aug. 1, 1990
NOVA BAIN DECOR INC (formerly 816545 Ontario Limited)	816545	Aug. 2, 1990
ORILLIA PHARMACY LIMITED	222757	Aug. 1, 1990
POROUS METALS LIMITED	155192	Aug. 1, 1990
PROFESSIONAL BUILDING SYSTEMS INC. (formerly 898996 Ontario Inc.)	898996	July 31, 1990
QUATIC TECHNICAL SERVICES INC. (formerly Quatic International Inc.)	415184	July 31, 1990
R. BECKMAN CELLULOSE INC.	429237	July 31, 1990
R. LAROCQUE (NIAGARA SOUTH) LTD. (formerly Larocque and Heywood Limited)	774786	July 27, 1990
RALNA PARENTCORP INC. (formerly Ralna Investments Limited)	903314	July 31, 1990
RE/MAX VISTA REALTY INC. (formerly 893885 Ontario Limited)	893885	Aug. 1, 1990
RICHARD LAROCQUE LIMITED	262576	July 31, 1990
RMN INVESTMENT COUNSEL INC. (formerly Reed Monahan Nicholishen, Investment Counsel Inc.)	505392	July 31, 1990
RIDEAU COMMUNICATIONS LIMITED (formerly 850071 Ontario Limited)	850071	Aug. 1, 1990
RIGHT CHOICE REALTY INC. (formerly Homelife/Right Choice Realty Inc.)	716353	Aug. 1, 1990
ROCKLAND TEXTILES INC.	329596	Aug. 1, 1990
ROYAL LASER TECH CORPORATION (formerly 702344 Ontario Limited)	702344	July 31, 1990
S. HUDES HOLDINGS LIMITED	568150	July 31, 1990
S. W. FARRELL & SONS (1979) LTD.	404349	Aug. 1, 1990
SAFETY HOUSE INC. (formerly Shellcrest Investments Inc.)	903278	July 31, 1990
SAINSBURY & COMPANY LTD. SAINSBURY & COMPAGNIE LTEE	767592	July 31, 1990
SARNIA WOLVERINE MANUFACTURING LTD. (formerly Sarnia Wolverine & Manufacturing Ltd.)	854804	July 31, 1990
SEGATO HOLDINGS INC.	537896	July 31, 1990
SILVER STAR TRAVEL INC.	795912	July 31, 1990
SOCIMEX LIMITED	319212	Aug. 2, 1990
SOLAR WINDOW CLEANING LTD.	840864	Aug. 1, 1990
SSI SYSTEM STRATEGIES INC. (formerly 891680 Ontario Limited)	891680	Aug. 1, 1990
STEVENS MERCURY SALES LIMITED	213675	July 31, 1990
SUNSET INNS INC. (formerly Sltk Sunset Mall Inc.)	539593	July 31, 1990
T.G.A. MANAGEMENT INC.	677394	July 31, 1990
T.T.S. HOLDINGS INC.	534530	July 27, 1990
TED BOLDT CONSTRUCTION INC. (formerly 743425 Ontario Limited)	743425	July 31, 1990
THERMOLITE INTERNATIONAL INC.	823082	July 31, 1990
TIPPET-RICHARDSON LIMITED	759887	Aug. 2, 1990
TORNET ELECTRIC ELECTRICAL SERVICES LTD. (formerly Toronto Network Electrical Services Ltd.)	815785	July 31, 1990



Name of Corporation	Ontario Corp. No.	Effective Date
TOTAL TOURING LIMITED (formerly Raw Touring Systems Inc.) .....	713681	Aug. 1, 1990
TRI-MAX REAL ESTATE LTD. (formerly Century 21 Tri-Max Real Estate Ltd.) .....	559261	July 31, 1990
TRILON LEASECO INC. ....	692827	Aug. 1, 1990
TROESTER ENTERPRISES LIMITED (formerly Millbank Builders Supply Limited) .....	230830	July 30, 1990
UNICORN UNIVERSAL WOODS (1990) LTD. (formerly 872401 Ontario Inc.) .....	872401	July 27, 1990
VENTURE TRUSCO INC. (formerly Venture Truss Limited) .....	674358	July 30, 1990
VYTALBASE INC. ....	801780	July 31, 1990
WALDEC OF CANADA LIMITED .....	108296	July 31, 1990
WATERCOLOUR BATH PRODUCTS INC. ....	691512	July 31, 1990
WATERLOO GLASS & MIRROR LIMITED .....	221787	Aug. 2, 1990
WATERLOO MEDICAL BUILDING (1990) LIMITED .....	900964	Aug. 1, 1990
WESTERN INTERNATIONAL CONSULTANTS INC. ....	863198	Aug. 1, 1990
WILLIAM KROPP LIMITED .....	105010	July 31, 1990
WINTERBURN HARDWARE LIMITED .....	209816	July 27, 1990
1 FOR 1 PIZZA LIMITED (formerly 1 + 1 Pizza Limited) .....	895448	July 31, 1990
379610 ONTARIO INC. (formerly Shortwave Marine Electronics Limited) .....	379610	July 31, 1990
403809 ONTARIO LIMITED .....	403809	July 30, 1990
517836 ONTARIO INC. (formerly Wallenstein General Store Inc.) .....	517836	Aug. 1, 1990
519617 ONTARIO INC. ....	519617	July 31, 1990
532491 ONTARIO LIMITED .....	532491	July 31, 1990
566232 ONTARIO LIMITED .....	566232	July 31, 1990
702560 ONTARIO INC. ....	702560	July 30, 1990
815286 ONTARIO LIMITED .....	815286	Aug. 1, 1990
832024 ONTARIO INC. ....	832024	Aug. 1, 1990
833914 ONTARIO INC. ....	833914	July 31, 1990
851250 ONTARIO INC. ....	851250	July 31, 1990
860041 ONTARIO INC. (formerly Easy Mail Inc.) .....	860041	July 31, 1990
866733 ONTARIO INC. ....	866733	July 31, 1990
868270 ONTARIO LIMITED .....	868270	July 30, 1990
871740 ONTARIO LIMITED .....	871740	July 31, 1990
871956 ONTARIO LTD. ....	871956	July 31, 1990
872578 ONTARIO INC. ....	872578	July 31, 1990
883387 ONTARIO INC. (formerly 883387 Ontario Ltd.) .....	883387	July 31, 1990
892890 ONTARIO LIMITED .....	892890	Aug. 1, 1990
901153 ONTARIO INC. (formerly Austin, Jones Insurance Brokers Inc.) ..	901153	July 31, 1990

DIANE S. NAGEL,  
Director, Companies Branch.

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### Articles of Revival/Statuts de reconstitution

NOTICE IS HEREBY GIVEN that certificates of revival under the *Business Corporations Act, 1982* have been endorsed reviving the following corporations:

Name of Corporation	Ontario Corp. No.	Effective Date
SIMBA GROUP DEVELOPMENTS LIMITED (formerly Simbagroup Developments Limited) .....	223735	July 27, 1990

DIANE S. NAGEL,  
Director, Companies Branch.

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# **Notice of Default in Complying with the Corporations Tax Act** **Avis de défaut d'observer la** **Loi sur l'imposition des personnes morales**

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 240 (1) of the *Business Corporations Act*, 1982 that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, Orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario L1H 8H6.

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
Ada/M Building Systems Inc. ....	684074	Esalen Developments Limited .....	678658
Airborn Productions Inc. ....	629886	Etnalpal Associates Limited .....	489486
Alanna V (Fairview) Ltd. ....	635081	Fairmount Canada Limited .....	471898
Arco Rubber Inc. ....	638131	Fantasy Fruit Market Ltd. ....	669087
Area Maintenance Systems Inc. ....	679578	Farell Shops Ltd. ....	458152
Aredel Security Systems Limited .....	413611	Fel-Co Polybag Equipment Limited ....	628677
Atlas Property Management Inc. ....	681771	First Time Investments Inc. ....	570897
Aurora Carpentry Ltd .....	682323	Follies Restaurants Inc. ....	492684
Auto Listings Inc. ....	676758	G. Maletich Wood Products Ltd. ....	565095
Avenue Agencies Inc. ....	599107	Garlin Design & Manufacturing Limited	295181
Awesome Promotions Inc. ....	676763	Gary Beech Enterprises Ltd. ....	347899
Bach Laboratories Inc. ....	491434	Gerald M. Johnston Holdings Inc. ....	492712
Bentley Tanning Salon Inc .....	601127	Gino's Pizza (1986) Inc. ....	679914
Beren Manufacturing & Distributing		Gino's Sports Car Accessories Ltd. ....	246935
Ltd. ....	600687	Gippers Sports Pub Ltd. ....	564879
Betwixt & Between Inc. ....	683730	Glengarry Meat Packing Ltd. ....	295176
BFR Corporation .....	476078	Gnarly Inc. ....	663760
Bimont Transportation Ltd. ....	529150	Goldcrest Bakery Limited .....	466707
Boughner Films Inc. ....	682911	Guycan Mines Limited .....	678270
Brink Mining & Resources Limited ....	640583	H. W. Cowan Canada Ltd. ....	409486
Camrose Holdings Inc. ....	603786	Hanna Bridal Fashions Inc. ....	679598
Canadian Classic Breeders Limited ....	138717	Heinz Jahn's Farms Limited .....	407208
Canworld Resources Inc. ....	483061	Heritage Vineyards Inc. ....	432651
Capricorn International Machine Sales		Hollywood Yacht Charters Ltd. ....	678096
Ltd. ....	495300	I. Pirso Ltd. ....	292677
Carib-Chinese Food Limited .....	682030	International Consultants Inc. ....	682175
Cay Management Consultants Ltd. ....	683726	International Distribution & Design Inc.	682772
Cherryhill Investments Limited .....	313195	J. A. Harvey Investments Limited .....	227151
Chiu & Ng Investments Ltd .....	680369	J.M. Transportation Specialists Ltd. ....	683765
Clans Community Link and Network		J.R. Charlebois Construction Inc. ....	681297
Systems International Corporation ....	681694	Jabasa Holdings Limited .....	221726
Connors Brewing Enterprises Limited ..	682209	James Jewer Construction Ltd. ....	365945
Construction Systems Ltd. ....	504377	Jaymar Management Services Limited ..	310468
Core Realty Management Ltd. ....	702790	Jemi Traders International Inc. ....	639068
Corsianos & Lepen Limited .....	334948	Jopell Wholesale Catering Ltd. ....	404067
Coutu Laundromat Inc. ....	425459	JPS Import/Export Ltd. ....	639106
Cygretech Trading Ltd. ....	683251	K. H. Butt Real Estate Limited .....	362920
Cyril Knight Engineering Limited .....	295474	Kama Electronics Co. Ltd. ....	683674
Daer's Limited .....	305161	Kamaro Investments Inc. ....	398811
David Fine Management Inc. ....	682034	Kathleen's Holdings Ltd. ....	599163
David Synthesizer Limited .....	302653	Kiff Construction Group Ltd. ....	683770
Delbic Investments Limited .....	273162	Kirsch Group Industries Limited .....	491767
Diac Limited .....	563122	Leo's Mane Investments Inc. ....	555578
Dial Cleaning Services Limited .....	152036	Letitia Heights Development Limited ..	260496
Dirt Park Ltd. ....	594220	Linrose Driver Services Inc .....	596874
DMC Enterprises Inc. ....	594862	LLL Investments Inc. ....	491257
Doer Painting & Drywall Ltd .....	675861	Log and Lantern Park Limited .....	557578
Domes Inflatable Inc. ....	621196	Lolo Sports Inc. ....	635061
E. Thomson Associates Inc. ....	609174	Longview Forming Limited .....	248072

Ontario		Ontario	
Name of Corporation	Corp. No.	Name of Corporation	Corp. No.
Lorraine Manufacturing Ltd. ....	454881	Tung Wah Trading Company Limited ..	679570
Lucky Food Products Limited .....	680036	Valleydown Apartments Limited .....	243669
M.J.Berger and Associates Inc. ....	692289	Via Italia Shoes Co. Ltd. ....	681661
Marenka Ltd. ....	276100	W. C. McLeod Heating and Ventilating	
Market Behaviour Limited .....	490413	Supplies Limited .....	120780
Marlet Pools Incorporated .....	670494	Walton Enterprises Inc. ....	599690
McCamus Miner's Inn Limited .....	529760	Wein Realty Limited .....	260366
McGhie Farms Limited .....	345350	Win Wa Seafood & BBQ Restaurant	
Merlin Veneers Inc. ....	573575	Ltd. ....	592042
Meteor Management Corporation .....	679545	Wolters Sun Systems International	
Metro Instrument Service Inc. ....	295250	Limited .....	682212
Michaud's Fine Furniture & Broadloom		Woodmantels Inc. ....	601580
Limited .....	364315	Xytel Communications Inc. ....	591073
Mikon Management Limited .....	493429	Yor-Type Graphics Ltd. ....	457480
Mississauga Plaza Town Centre Corp ..	682339	ZB & Associates Travel Ltd. ....	361822
Mostly Whites Ltd. ....	298773	Zeven Construction Inc. ....	684129
Motivational Marketing Publishing Inc.	609957	Zipchen's Wholesale Warehousing	
Mstree Productions Ltd. ....	366474	(Ontario) .....	684042
Music Mench Inc. ....	607490	Limited .....	
Nimpex International Limited .....	546684	204215 Ontario Limited .....	204215
Oakwood Leasing Inc. ....	500146	21st Century Demolition & Salvage Inc.	680582
Olympic Gold Corporation .....	681521	281519 Ontario Limited .....	281519
Ontario Sheepskin House Limited .....	330964	291893 Ontario Limited .....	291893
Park Square Investments Inc. ....	637153	3VM Enterprises Inc. ....	676674
Party Loft Inc. ....	625384	396092 Ontario Limited .....	396092
Pat & Simon Ltd. ....	438775	418718 Ontario Limited .....	418718
Paul Roi Concepts Inc. ....	682054	421213 Ontario Limited .....	421213
Petinco Limited .....	354683	421297 Ontario Limited .....	421297
Pixie's Domestic Personnel Ltd. ....	597635	445119 Ontario Inc. ....	445119
R.D. Conceptual Marketing Inc. ....	594885	464499 Ontario Incorporated .....	464499
Reach For A Peach Investments Limited	346077	488888 Ontario Limited .....	488888
Rheal & Son Excavations Ltd. ....	454166	491657 Ontario Corporation .....	491657
Risim International Inc. ....	382093	492385 Ontario Inc. ....	492385
Risto's Aluminum Products Ltd. ....	683622	492783 Ontario Ltd. ....	492783
Roe-Hoiles Motors Limited .....	86065	516370 Ontario Limited .....	516370
Roicewin Imports & Exports		518185 Ontario Limited .....	518185
Incorporated .....	683843	518960 Ontario Limited .....	518960
Roma's Fine Foods Inc. ....	576053	529273 Ontario Limited .....	529273
RS Realty Advisors Inc. ....	642001	541425 Ontario Limited .....	541425
S.B.M. Signs Ltd. ....	638145	547327 Ontario Limited .....	547327
S.H.I.P. 25 Investment Inc. ....	643580	555481 Ontario Inc. ....	555481
Sal Monaco Produce Ltd. ....	448182	562953 Ontario Limited .....	562953
Sarjay Investments Limited .....	488555	564876 Ontario Limited .....	564876
Serv-All Food Equipment Services Inc.	563264	566509 Ontario Limited .....	566509
Silva Investments Limited .....	681519	586182 Ontario Inc. ....	586182
Smokey Hollow Farms Ltd. ....	592881	594352 Ontario Limited .....	594352
South Eastern Realty Investments		596062 Ontario Inc. ....	596062
Limited .....	232220	600230 Ontario Limited .....	600230
Southern Multicorp Limited .....	265581	601174 Ontario Ltd. ....	601174
Steel City Construction Ltd. ....	363272	605835 Ontario Inc. ....	605835
Storeshares Inc. ....	681504	606703 Ontario Limited .....	606703
Summit Property Management		606704 Ontario Limited .....	606704
Incorporated .....	524382	612697 Ontario Limited .....	612697
Superstars Mississauga Inc. ....	679963	629584 Ontario Inc. ....	629584
Tall Pines Foods Inc. ....	633275	630229 Ontario Limited .....	630229
Tara Hill Developers Inc. ....	682316	630230 Ontario Limited .....	630230
Terrace Beauty Centre Limited .....	686161	631428 Ontario Limited .....	631428
Terrasearch Engineering Ltd. ....	673159	635272 Ontario Limited .....	635272
The Print Palace Inc. ....	684002	637142 Ontario Ltd. ....	637142
Tiaron Markets Limited .....	348708	637155 Ontario Inc. ....	637155
Tinney Auto Wholesale Limited .....	518298	637385 Ontario Limited .....	637385
Trillium Cleaners Limited .....	341090	638936 Ontario Inc. ....	638936
Tubbs Pool/Spa Supplies Limited .....	669519	638986 Ontario Inc. ....	638986

Name of Corporation	Ontario Corp. No.	Name of Corporation	Ontario Corp. No.
639777 Ontario Inc. ....	639777	681322 Ontario Ltd. ....	681322
640305 Ontario Ltd. ....	640305	681552 Ontario Inc. ....	681552
640584 Ontario Limited ....	640584	681564 Ontario Limited ....	681564
654086 Ontario Inc. ....	654086	681576 Ontario Limited ....	681576
657962 Ontario Limited ....	657962	681610 Ontario Ltd. ....	681610
658497 Ontario Limited ....	658497	681675 Ontario Limited ....	681675
670522 Ontario Ltd. ....	670522	681748 Ontario Limited ....	681748
673593 Ontario Limited ....	673593	682342 Ontario Limited ....	682342
675980 Ontario Inc. ....	675980	682811 Ontario Limited ....	682811
676668 Ontario Inc. ....	676668	682817 Ontario Limited ....	682817
678181 Ontario Limited ....	678181	682836 Ontario Ltd. ....	682836
678567 Ontario Limited ....	678567	682963 Ontario Inc. ....	682963
678876 Ontario Inc. ....	678876	683619 Ontario Limited ....	683619
679402 Ontario Limited ....	679402	683851 Ontario Limited ....	683851
679541 Ontario Inc. ....	679541	684053 Ontario Limited ....	684053
679840 Ontario Limited ....	679840	684139 Ontario Limited ....	684139
680128 Ontario Ltd. ....	680128	684908 Ontario Limited ....	684908
680197 Ontario Limited ....	680197	702977 Ontario Ltd. ....	702977
680265 Ontario Limited ....	680265		
681243 Ontario Limited ....	681243		
681254 Ontario Ltd. ....	681254		

DIANE S. NAGEL,  
Director, Companies Branch.

## Certificates of Amendment of Articles Issued Certificats de modification des statuts

NOTICE IS HEREBY GIVEN that, under the *Credit Unions and Caisses Populaires Act*, amendments to articles have been effected as follows:

AVIS EST PAR LES PRÉSENTES DONNÉ QUE, vertu de la *Loi sur les caisses populaires et les credit unions*, les modifications des statuts ont été apportées comme suit:

Name of Corporation	Date of Incorporation	Effective Date	Type of Certificate Issued
Nom de la compagnie	Date de constitution	Date de prise d'effet	Genre de certificat délivré
CREDIT UNION CENTRAL OF ONTARIO LIMITED (formerly Ontario Credit Union League Limited) .....	1942 - 06 - 27	1990 - 06 - 14	Articles of Amendment
VME EMPLOYEES' (ST. THOMAS) CREDIT UNION LIMITED (formerly Canadian Clark Employees' (St. Thomas) Credit Union Limited) .....	1964 - 11 - 05	1990 - 06 - 27	Articles of Amendment

C. N. H. WILSON,  
Director, Credit Unions and Co-operatives Services Branch, Ministry of Financial Institutions.  
Directeur, Direction des Caisses populaires et des coopératives,  
Ministère des Institutions financières.



## **Applications to Provincial Parliament—Private Bills Demandes au Parlement provincial—Projets de loi d'intérêt privé**

### **PUBLIC NOTICE**

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

The Office of the Clerk of the Legislative Assembly  
Room 1521, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/963-1300 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIER,  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## **Petitions to Provincial Parliament/Pétitions au Parlement provincial**

Extract from the Standing Orders respecting petitions

35. (c) Every petition shall:

- (i) be addressed to the Parliament, Legislature or Legislative Assembly of Ontario;
  - (ii) contain a clear, proper and respectful request that the House take some action within its authority;
  - (iii) be written, typewritten or printed, without erasures or insertions;
  - (iv) have its request appear at the top of every sheet, if it consists of more than one sheet of signatures; and
  - (v) contain the names, addresses and original signatures written directly on the face of the petition and not pasted thereon or otherwise transferred to it.
- (d) Every member presenting a petition shall ensure that the petition conforms with the Standing Orders.
- (e) The signature of every member presenting a petition shall be affixed to the petition.

Further information with respect to petitions may be obtained from:

Journals Branch  
Room 110, Legislative Building  
Queen's Park  
Toronto, Ontario  
M7A 1A2

Telephone: 416/965-1406  
(Collect calls will be accepted.)



## SAMPLE FORM FOR PETITIONS

## PETITION

TO *The Parliament/Legislature/Legislative Assembly* (choose one) of *Ontario*:—

WHEREAS (preamble if required)

WHEREAS (preamble if required)

I/We the undersigned petition the *Parliament/Legislature/Legislative Assembly* (choose one) of *Ontario* as follows:—

(Text of Petition)

Name (printed)

Address (printed)

Signature

(4268) T.F.N.

CLAUDE L. DESROSIER,   
 Clerk of the Legislative Assembly.

## Applications to Provincial Parliament Demandes au Parlement Provincial

### GILFORD LAND DEVELOPMENT CO. LIMITED

NOTICE IS HEREBY GIVEN that on behalf of Gilford Land Development Co. Limited application will be made to the Legislative Assembly of the Province of Ontario for an Act reviving the corporation.

The application will be considered by a Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 1st day of July, 1990.

BRIAN McDONOUGH,  
on behalf of the Applicant,  
Gilford Land Development Co.

(6855) 31 to 34 Limited

### CITY OF YORK

### NOTICE OF APPLICATION FOR SPECIAL LEGISLATION

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the City of York, application will be made to the Legislative Assembly of the Province of Ontario for an Act granting the Corporation of the City of York certain powers and imposing certain duties regarding its Board of Health as follows:

1. the Council of the City of York shall stand in the place of its Board of Health in respect of the appointment, reappointment and dismissal of the Medical Officer of Health; and

2. the Council of the City of York shall provide to its Board of Health such employees of the City including public health nurses that it considers necessary to carry out the functions of the Board of Health; and

3. the Council of the City of York shall appoint the auditor of its Board of Health.

This application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee of Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 2nd day of August, 1990.

THE CORPORATION OF  
THE CITY OF YORK,

GEORGE MCQ. BARTLETT,  
City Solicitor.

(6896) 32 to 35

### SIKH CULTURAL SOCIETY OF METROPOLITAN WINDSOR

NOTICE IS HEREBY GIVEN that on behalf of Autar Singh Sidhu application will be made to the Legislative Assembly of the Province of Ontario for an Act to revive Sikh Cultural Society of Metropolitan Windsor, a religious and charitable (non-profit) organization.

The application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or

against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Windsor, Ontario, this 8th day of August, 1990.

(6971) 34 to 37

AUTAR SINGH SIDHU.

## Corporation Notices Avis relatifs aux compagnies

### HOBBYLAND LIMITED

NOTICE IS HEREBY GIVEN that Hobbyland Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 3rd day of August, 1990.

(6972) 34

WILLIAM WILLIAMS,  
President.

### AMEUBLEMENT CYRVILLE FURNITURE LIMITED

NOTICE IS HEREBY GIVEN that Ameublement Cyrville Furniture Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

(6973) 34

DAVID SIMPSON,  
President.

### EARL PARKES CONSTRUCTION LTD.

NOTICE IS HEREBY GIVEN that Earl Parkes Construction Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 9th day of July, 1990.  
(6974) 34

### SETO TRADING CORPORATION

NOTICE IS HEREBY GIVEN that Seto Trading Corporation intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Scarborough, this 8th day of August, 1990.

(6975) 34

### ASTRA MARKETING CANADA INC

NOTICE IS HEREBY GIVEN that Astra Marketing Canada Inc intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 19th day of July, 1990.

(6976) 34

MARK STEELE,  
President.

### PATERSON AUTO REPAIR LIMITED

NOTICE IS HEREBY GIVEN that Paterson Auto Repair Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Niagara Falls, this 3rd day of August, 1990.

(6977) 34

KEVIN LEE KENYERES,  
President.

### 686648 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 686648 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Mississauga, this 23rd day of July, 1990.

(6978) 34

RUDOLPH HOCHREIN,  
Treasurer.

### T. DEJOURNO SR. HOLDINGS INC.

NOTICE IS HEREBY GIVEN that T. DeJourno Sr. Holdings Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 7th day of August, 1990.

(6979) 34

THOMAS DEJOURNO, SR.,  
President.

### THOMAS ADAMS DISTILLERS (ONTARIO) LIMITED

NOTICE IS HEREBY GIVEN that Thomas Adams Distillers (Ontario) Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 21st day of June, 1990.

(6980) 34

LAURA SCOTT,  
Secretary.

### JERAPPLE MANAGEMENT INC.

NOTICE IS HEREBY GIVEN that Jerapple Management Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Renfrew, this 10th day of August, 1990.

(6981) 34

### 670137 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 670137 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Windsor, this 8th day of August, 1990.

(6982) 34

TERRANCE JOSEPH BACHMEIER.

### 449647 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 449647 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 3rd day of June, 1990.

(6983) 34

DARRELL HERAUS,  
President.

**BILL DELINE LIMITED**

NOTICE IS HEREBY GIVEN that Bill Deline Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Belleville, this 8th day of August, 1990.

(6984) 34 GLENN A. DELINE,  
Director.

**LOUIS DAVID DECORATING LIMITED**

NOTICE IS HEREBY GIVEN that Louis David Decorating Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Markham, this 15th day of August, 1990.

(6985) 34 LOUIS DAVID,  
President.

**DELTA DECORATING LIMITED**

NOTICE IS HEREBY GIVEN that Delta Decorating Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Markham, this 15th day of August, 1990.

(6986) 34 LOUIS DAVID,  
President.

**TREBOR HOLDINGS INC.**

NOTICE IS HEREBY GIVEN that Trebor Holdings Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at London, this 10th day of August, 1990.

(6987) 34 HELEN MARY HOGG,  
Secretary.

**788864 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 788864 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 15th day of August, 1990.

(6988) 34 PAUL DAVOUD,  
President.

**K.J. GRAY FINANCIAL CONSULTING INC.**

NOTICE IS HEREBY GIVEN that K.J. Gray Financial Consulting Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 13th day of August, 1990.

(6989) 34 KENNETH J. GRAY,  
Secretary.

**345588 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 345588 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Kitchener, this 31st day of July, 1990.

(6990) 34

**FARRELL'S PHARMACY LIMITED**

NOTICE IS HEREBY GIVEN that Farrell's Pharmacy Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Windsor, this 1st day of August, 1990.

(6991) 34 LAWRENCE V. FARRELL,  
President,  
ZENA FARRELL,  
Secretary.

**E. WEIGHTMAN & SONS LIMITED**

NOTICE IS HEREBY GIVEN that E. Weightman & Sons Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 12th day of June, 1990.

(6992) 34 J. CLINTON HOSKINS,  
Secretary.

**MARBRANT DEVELOPMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Marbrant Developments Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Burlington, this 26th day of July, 1990.

(6993) 34 CATHARINE SCOTT,  
Secretary.

**AQUA TERRA LIMITED**

NOTICE IS HEREBY GIVEN that Aqua Terra Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 1st day of August, 1990.

(6994) 34 GORDON N. DEMPSEY,  
Secretary-Treasurer.

**DOUG'S SERVICE CENTRE CAMBRIDGE INC.**

NOTICE IS HEREBY GIVEN that Doug's Service Centre Cambridge Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Cambridge, this 9th day of August, 1990.

(6995) 34 DOUGLAS JOHN HORST,  
President.

**NORCOIL TECHNOLOGY LIMITED**

NOTICE IS HEREBY GIVEN that Norcoil Technology Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 7th day of August, 1990.

(6996) 34 FRASER REID,  
President.

**810423 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 810423 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.



Dated at Toronto, this 13th day of August, 1990.

(6997) 34 By its solicitor herein,  
ROBERT W. WILSON.

#### MAXIM HEALTHCARE SERVICES LIMITED

NOTICE IS HEREBY GIVEN that Maxim Healthcare Services Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 20th day of August, 1990.

(6998) 34 JULIA Y. CHAN,  
Secretary.

#### HANG-A-PLANT

NOTICE IS HEREBY GIVEN that Hang-A-Plant intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 31st day of May, 1990.

(6999) 34 MARGUERITE LACELLE,  
President.

#### GENKAR INCORPORATED

NOTICE IS HEREBY GIVEN that Genkar Incorporated intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 25th day of July, 1990.

(7000) 34 GERALD J. SPROUL,  
President.

#### 603869 ONTARIO INC.

NOTICE IS HEREBY GIVEN that 603869 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 1st day of August, 1990.

(7001) 34 LEE CAROLYN WOOD,  
President.

#### M G L CORRUGATED CONTAINERS LTD.

NOTICE IS HEREBY GIVEN that M G L Corrugated Containers Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 14th day of August, 1990.

(7002) 34 WILLIAM J. LINDO,  
Exec. Vice-President.

#### CDS MECHANICAL CONTRACTORS LIMITED

NOTICE IS HEREBY GIVEN that CDS Mechanical Contractors Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated at Toronto, this 18th day of May, 1990.

(7003) 34 PAUL E. CARNEY,  
Secretary.

#### KAIDAR INVESTMENTS LIMITED

NOTICE IS HEREBY GIVEN that Kaidar Investments Limited intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 31st day of July, 1990.

(7004) 34 JEAN ERNESTINE WANT,  
Secretary.

#### KRIPALU YOGA CENTRE

Ontario Corporation #0346322

NOTICE IS HEREBY GIVEN that the number of directors of the Toronto Kripalu Yoga Centre has increased from 5 to 9 by a special resolution which was confirmed by the members of the Corporation on the 29th day of July, 1990.

Dated this 8th day of August, 1990.

(7005) 34 LORI HORLEY,  
Secretary.

#### LINDA SMITH DAY CARE SERVICES INC.

NOTICE IS HEREBY GIVEN that the number of directors of the Linda Smith Day Care Services Inc. was increased from three to seven by a special resolution which was confirmed by the members of the Corporation as of the 18th day of July, 1990.

Dated this 18th day of July, 1990.

(7006) 34 LINDA JANE SMITH,  
President.

#### THE CONCERNED KIDS CHARITY OF TORONTO

NOTICE IS HEREBY GIVEN that the number of directors of The Concerned Kids Charity of Toronto was increased from 3 to 8 by a special resolution which was confirmed by the members of the Corporation on June 20th, 1990.

(7007) 34 JOYCE ATTIS,  
Executive Director.

#### THE MANUEL ROTH FAMILY FOUNDATION INC.

NOTICE IS HEREBY GIVEN that effective June 26, 1990 the head office of the Corporation was changed from 21 Vaughan Road, Suite 114, Toronto, Ontario M6G 2N2 to 19 York Ridge Road, North York, Ontario M2P 1R8 by special resolution which was confirmed by the members on June 26, 1990.

Dated at Toronto, this 11th day of July, 1990.

(7008) 34 MILLARD ROTH,  
President.

#### SENIORS' OUTREACH SERVICES HAGERSVILLE AND AREA INC.

NOTICE IS HEREBY GIVEN that Seniors' Outreach Services Hagersville and Area Inc., Ontario Corporation #780813, intends to apply for surrender of charter/termination of corporate existence.

Dated this 13th day of August, 1990.

(7009) 34 F. DEVRIES,  
Chairman,  
Board of Directors.



**CANDELL CO. LTD.**

NOTICE IS HEREBY GIVEN that Candell Co. Ltd. intends to dissolve pursuant to the *Business Corporations Act, 1982*.

Dated this 7th day of August, 1990.

(7019) 34 JUDITH E. BETTS,  
President.

## Notice to Creditors Avis aux créanciers

IN THE ESTATE OF HAROLD  
BLATHERWICK, DECEASED

All claims against the Estate of Harold Blatherwick, late of the City of Toronto in the Municipality of Metropolitan Toronto, who died on or about April 30, 1990, must be filed with the undersigned personal representative on or before October 1, 1990, thereafter the undersigned will distribute the assets of the Estate having regard only to the claims then filed.

Dated at Toronto, this 3rd day of August, 1990.

(6964) 33 to 35 ALICE HAZEL BLATHERWICK,  
LEONARD BLATHERWICK,  
Administrators by their  
solicitor,  
Willia Joan Corse,  
78 Shields Avenue,  
Toronto, Ontario M5N 2K4.

IN THE ESTATE OF ROBERT FRANCIS  
BORLAND COOLEY, DECEASED

All claims against the Estate of Robert Francis Borland Cooley, late of the City of Toronto in the Municipality of Metropolitan Toronto, who died on or about April 24, 1990, must be filed with the undersigned on or before October 1, 1990, thereafter the undersigned will distribute the assets of the Estate having regard only to the claims then filed.

Dated at Toronto, this 3rd day of August, 1990.

(6965) 33 to 35 FRANCES JANE COOLEY,  
MARGARET ANN COOLEY,  
MARY LOUISE OAKES,  
Trustees by their solicitor,  
Willia Joan Corse,  
78 Shields Avenue,  
Toronto, Ontario M5N 2K4.

## Dissolutions of Partnership Dissolution de sociétés

RAFAEL + BIGAUSKAS ARCHITECTS

TAKE NOTICE that as of July 31, 1990 Howard Rafael Architects Inc. is no longer a member of the partnership known as Rafael + Bigauskas Architects, operating at and from 45 Bridgeland Avenue, Toronto, Ontario.

Howard Rafael Architect Inc. and its principal, Howard Rafael, will not be responsible for any debts or obligations of such partnership after that date.

Dated this 31st day of July, 1990.

(7010) 34 ANDREW BIGAUSKAS,  
Authorized Signing Officer  
of RAFAEL + BIGAUSKAS  
ARCHITECTS.  
HOWARD RAFAEL ARCHITECT  
INC.  
Per: HOWARD RAFAEL,  
Authorized Signing Officer.

## Miscellaneous Notices Avis divers

ICG UTILITIES (ONTARIO) LTD

RATES AND GAS COSTS

NOTICE OF APPLICATION

TAKE NOTICE that ICG Utilities (Ontario) Ltd ("ICG") has filed with the Ontario Energy Board ("the Board") a rate Application dated August 3rd, 1990, pursuant to sections 15 and 19 of the *Ontario Energy Board Act, R.S.O. 1980, chapter 332*. ICG requests approval of new rates and other charges for the sale, transportation and storage of gas for the period January 1st, 1991 to December 31st, 1991 following a public hearing. ICG has also applied for an order or orders approving the gas cost consequences of the gas pricing agreement between ICG and Western Gas Marketing Limited with respect to certain pricing and related matters for the period from November 1st, 1990 to October 31st, 1993.

This notice does not constitute service but is published as a matter of record only.

Dated at Toronto, this 13th day of August, 1990.

(7011) 34 ONTARIO ENERGY BOARD:  
S. A. C. THOMAS  
Board Secretary.

ICG UTILITIES (ONTARIO) LTD

TARIFS ET COÛTS LIÉS AU GAZ

AVIS DE PRÉSENTATION D'UNE DEMANDE

IL EST PAR LES PRÉSENTES ANNONCÉ QU'ICG Utilities (Ontario) Ltd ("ICG") a déposé auprès de la Commission de l'énergie de l'Ontario ("la Commission") une demande de modification de ses tarifs datée du 3 août 1990, en vertu des Article 15 et 19 de la *Loi sur la Commission de l'énergie de l'Ontario, L.R.O. 1980, c. 332*. ICG demande que de nouveaux tarifs et autres coûts pour la vente, le transport et le stockage de gaz soient approuvés pour la période comprise entre le 1<sup>er</sup> janvier et le 31 décembre 1991, après la tenue d'une audience publique. ICG a également demandé l'adoption

d'une ou plusieurs ordonnances approuvant les conséquences sur le coût du gaz de l'Accord de fixation du prix du gaz conclu entre ICG et Western Gas Marketing Limited pour ce qui est de certaines questions de fixation des prix et aspects connexes pour la période comprise entre le 1<sup>er</sup> novembre 1990 et le 1<sup>er</sup> octobre 1993.

Le présent avis n'est publié qu'à titre de fait enregistré, et son contenu ne doit pas être considéré comme ayant été signifié.

Fait à Toronto le 13 août 1990.

COMMISSION DE L'ÉNERGIE DE L'ONTARIO :

S. A. C. THOMAS,  
Secrétaire de la Commission.

(7012) 34

## NATURAL RESOURCE GAS LIMITED

### NOTICE OF RATE APPLICATION

TAKE NOTICE that Natural Resource Gas Limited ("NRG") has filed with the Ontario Energy Board a main rate Application dated June 1st, 1990 under section 19 of the *Ontario Energy Board Act*, R.S.O. 1980, chapter 332 ("the Act"). NRG requests approval of new rates and other charges for the sale of gas following a public hearing.

AND FURTHER TAKE NOTICE that NRG has also applied for such interim order or orders, pursuant to sections 15 (8) and 19 of the Act, as may be necessary to amend or increase NRG's existing rates pending final disposition of the Application.

This notice does not constitute service but is published as a matter of record only.

Dated at Toronto, this 8th day of August, 1990.

ONTARIO ENERGY BOARD:

S. A. C. THOMAS  
Board Secretary.

(7013) 34

## Sheriffs' Sales of Lands Ventes de terrains par le shérif

UNDER AND BY VIRTUE OF a Writ of Seizure and Sale issued out of the Supreme Court of Ontario, to me directed, against the real and personal property of James Bereznick, also known as Jim Bereznick, at the suit of Irene Woodruff, I have seized and taken in execution all the right, title, interest and equity of redemption of Jim Bereznick, In Trust, in and to the following property:

All and singular that certain parcel or tract of land and premises located in the following municipality, namely, in the Township of Puslinch, in the County of Wellington and Province of Ontario, and being composed of Lot 20, Plan 684, Township of Puslinch, County of Wellington Land Registry Office for the Registry Division of Wellington South (No. 61) known municipally as R.R. #3 Guelph, Ontario.

All of which said right, title, interest and equity of redemption of the said Jim Bereznick, In Trust, in the said real property, I shall offer for sale by public auction at my office in the Court House, 74 Woolwich Street, Guelph, Ontario, on Wednesday, the 26th day of September, 1990, at 11.00 a.m.

TERMS: Cash or certified cheque made payable to the Sheriff, County of Wellington.

10% deposit of bid price at time of sale.

Ten days to arrange financing.

Delivery only on payment in full, failing which all payments are forfeited.

Other conditions as announced.

This sale is subject to cancellation up to time of sale without further notice.

Dated at Guelph, this 9th day of August, 1990.

NOTE: No employee of the Ministry of the Attorney General may purchase any goods, chattels, lands or tenements exposed by a Sheriff for sale under legal process, either directly or indirectly.

KATHLEEN A. CROSS,  
Deputy Sheriff,  
County of Wellington.

(7015) 34

## JUDICIAL DISTRICT OF HALTON

UNDER AND BY VIRTUE OF a Writ of Seizure and Sale issued out of the Supreme Court of Ontario in an action wherein Kiril Glavanov is Plaintiff and Montreal Trust Company of Canada, Pink Flamingo Homes Ltd., Charles Currie, Oriana Currie, Bonnie Currie and David Currie are Defendants, I have seized and taken in execution the undivided one third share or interest and all other right, title, interest and equity of redemption of the said Charles Currie in land described as follows:

All and singular that certain parcel or tract of land and premises situate, lying and being in the Town of Milton, formerly in the Township of Nassagaweya, Regional Municipality of Halton, formerly County of Halton, Province of Ontario and being composed of Part of the North Easterly Half of Lot 3 in the Third Concession of the said Town of Milton and which said parcel may be more particularly described as follows:

Premising the Road Allowance between Concessions 3 and 4, known as the Guelph Line to have a bearing of North 45 degrees, 00 minutes West and relating all bearings herein thereto;

Commencing at a Standard Iron Bar planted in the North Easterly limit of the North Easterly Half of the said Lot 3 being also the South Westerly limit of the Road Allowance between Concessions 3 and 4 where the same is intersected by the South Easterly limit of the Given Road through the said Concession 3 as set out in Deposit Number 178272 and which said Standard Iron Bar is distant 20.08 feet measured South Easterly along the North Easterly limit of the North Easterly Half of the said Lot 3 from the Northerly angle of the said Lot 3;

Thence South 45 degrees, 00 minutes, East along the North Easterly limit of the North Easterly Half of the said Lot 3, a distance of 220.03 feet to an Iron Bar in the line of a post and wire fence running South Westerly therefrom;

Thence South 39 degrees, 14 minutes, 00 seconds West along the line of the said post and wire fence, a distance of 212.60 feet to an Iron Bar in the line of a post and wire fence running North Westerly ad South Easterly therefrom;

Thence North 45 degrees, 08 minutes, 10 seconds West along the line of the said post and wire fence, a distance of 222.86 feet to an Iron Bar planted in the South Easterly limit of the said Given Road;

Thence North 40 degrees, 00 minutes East therealong, a distance of 212.85 feet to the point of commencement.

The herein described parcel to contain by admeasurement 1.077 acres to be the same more or less.

The subject property is municipally known as 8460 Guelph Line, R.R. #2, Campbellville, Ontario.

Situated on the property is a house and structure used as a warehouse.

All of which said undivided one third share or interest and all other right, title, interest and equity of redemption of the said Charles Currie in the said lands and tenements, I shall offer for sale by public auction in my office in the Court House, 491 Steeles Avenue East, in the Town of Milton on Friday, the 5th day of October, 1990 at the hour of 11.00 o'clock in the afternoon.

No persons working for the Ministry of the Attorney General, or officials of the Provincial Court (Civil Division) or persons working for them shall purchase either directly or indirectly, any goods, chattels, lands or tenements exposed by a Sheriff for sale under legal process.

TERMS: Cash.

Deposit 10% of bid price at time of sale.

Ten days to arrange financing on balance.

Deed only on payment in full.

This sale is subject to cancellation up to time of sale without further notice.

Dated at the Town of Milton, this 8th day of August, 1990.

ROBERT M. SPROWL,  
Sheriff,  
Judicial District of Halton.

(7016) 34

## Sales of Lands for Tax Arrears by Public Tender Ventes de terrains par appel d'offres pour arriéré d'impôt

MUNICIPAL TAX SALES ACT, 1984

### THE TIMISKAMING BOARD OF EDUCATION

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3.00 p.m. local time on September 20th, 1990, at River Road (off Golf Course Road), The Board Office, New Liskeard, Ontario.

The tenders will then be opened in public on the same day at River Road (off Golf Course Road).

Description of Land(s)	Minimum Tender Amount
A. Parcel 8598 NND, Concession 2, Part Lot 21, Coleman Township, 39.90 acres, surface rights only .....	\$ 320.67
B. Parcel 7767 NND, Concession 2, Part Lot 22, Coleman Township, 25.50 acres, surface rights only .....	\$ 286.85
C. Parcel 16569 SST, Concession 5, North Part Lot 12, Henwood Township, 67.28 acres .....	\$1,247.61
D. Parcel 12395 SST, Concession 2, North Part Lot 8, Ingram Township, 159.50 acres .	\$1,173.52
E. Parcel 21453 SST, Concession 2, North Part Lot 2, Tudhome Township, surface rights only, being Mining Claim No. M.R. 18571, 39.75 acres .....	\$ 240.45

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.



The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, being chapter 48 of the Statutes of Ontario, 1984 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

C. F. SHEPHERDSON,  
Treasurer,  
THE TIMISKAMING BOARD OF  
EDUCATION,  
Box 40,  
New Liskeard, Ontario P0J 1P0.

(7017) 34

MUNICIPAL TAX SALES ACT, 1984

THE CORPORATION OF THE TOWN OF RIDGETOWN

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3.00 p.m. local time on Friday, the 14th day of September, 1990 at 45 Main Street East, Ridgetown, Ontario N0P 2C0.

Description of Land(s)	Minimum Tender Amount
20 Marsh Street, Ridgetown, Ontario, being the southwesterly 132 feet in even perpendicular width of Lot 2, Block "C", Registered Plan 63, in the Town of Ridgetown, in the County of Kent .....	\$6,059.44

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1984*, being chapter 48 of the Statutes of Ontario, 1984 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

GERALD P. SECORD,  
Administrator, Clerk-Treasurer,  
CORPORATION OF THE TOWN OF  
RIDGETOWN,  
45 Main Street East,  
Ridgetown, Ontario N0P 2C0.

(7018) 34



Publications under the Regulations Act

Publications en vertu de la Loi sur les règlements

1990—08—25

HEALTH INSURANCE ACT

O. Reg. 414/90.  
General.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
REGULATION 452 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
HEALTH INSURANCE ACT

1. Clauses 37 (9) (h), (i), (j) and (k) of Regulation 452 of Revised Regulations of Ontario, 1980, as remade by section 1 of

2. Item 21 of Table 1B of the Regulation, as made by section 1 of Ontario Regulation 255/90, is revoked and the following substituted:

21.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990 ....	721.90	23.73	1,117.32	36.74	1,839.22	60.47
22.	On or after the 1st day of August, 1990 .....	732.41	24.08	1,106.81	36.39	1,839.22	60.47

3. Items 7zm, 13zm, 19zm, 25zm, 31zm and 76 of Table 2 of the Regulation, as made by section 2 of Ontario Regulation 209/90, are revoked and the following substituted:

Ontario Regulation 447/89, are revoked and the following substituted:

- (h) by a person who has one dependant, where the aggregate estimated incomes of the person and the person's dependant do not exceed \$2,480;
- (i) by a person who has two dependants, where the aggregate estimated incomes of the person and the person's dependants do not exceed \$2,835;
- (j) by a person who has three dependants, where the aggregate estimated incomes of the person and the person's dependants do not exceed \$3,157;
- (k) by a person who has four or more dependants, where the aggregate estimated incomes of the person and the person's dependants do not exceed \$3,446.

7zm.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person with no dependants—maximum estimated income \$821.90	Estimated income less \$100.00	Estimated income less \$100.00, divided by 30.4
7zn.	On or after the 1st day of August, 1990.	Person with no dependants—maximum estimated income \$832.41	Estimated income less \$100.00	Estimated income less \$100.00, divided by 30.4
13zm.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person with one dependant—maximum aggregate estimated incomes \$4,528.00	Aggregate estimated incomes less \$2,362.00, divided by 3	Aggregate estimated incomes less \$2,362.00, divided by 91.2
13zn.	On or after the 1st day of August, 1990.	Person with one dependant—maximum aggregate estimated incomes \$4,677.00	Aggregate estimated incomes less \$2,480.00, divided by 3	Aggregate estimated incomes less \$2,480.00, divided by 91.2
19zm.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person with two dependants—maximum aggregate estimated incomes \$4,866.00	Aggregate estimated incomes less \$2,700.00, divided by 3	Aggregate estimated incomes less \$2,700.00, divided by 91.2
19zn.	On or after the 1st day of August, 1990.	Person with two dependants—maximum aggregate estimated incomes \$5,032.00	Aggregate estimated incomes less \$2,835.00, divided by 3	Aggregate estimated incomes less \$2,835.00, divided by 91.2
25zm.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person with three dependants—maximum aggregate estimated incomes \$5,173.00	Aggregate estimated incomes less \$3,007.00, divided by 3	Aggregate estimated incomes less \$3,007.00, divided by 91.2
25zn.	On or after the 1st day of August, 1990.	Person with three dependants—maximum aggregate estimated incomes \$5,354.00	Aggregate estimated incomes less \$3,157.00, divided by 3	Aggregate estimated incomes less \$3,157.00, divided by 91.2
31zm.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person with four or more dependants—maximum aggregate estimated incomes \$5,448.00	Aggregate estimated incomes less \$3,282.00, divided by 3	Aggregate estimated incomes less \$3,282.00, divided by 91.2
31zn.	On or after the 1st day of August, 1990.	Person with four or more dependants—maximum aggregate estimated incomes \$5,643.00	Aggregate estimated incomes less \$3,446.00, divided by 3	Aggregate estimated incomes less \$3,446.00, divided by 91.2
76.	On or after the 1st day of May, 1990, but before the 1st day of August, 1990.	Person not referred to in Items 1-31zm	\$721.90	\$23.73
77.	On or after the 1st day of August, 1990.	Person not referred to in Items 1-31zn	\$732.41	\$24.08

NURSING HOMES ACT

O. Reg. 415/90.  
General.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
REGULATION 690 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
NURSING HOMES ACT

1. Item 40 of Table 1 of Regulation 690 of Revised Regulations of Ontario, 1980, as made by section 1 of Ontario Regulation 210/90, is revoked and the following substituted:
40. On or after the 1st day of May, 1990,  
but before the 1st day of August, 1990.

\$721.90

\$23.73
41. On or after the 1st day of August, 1990.

\$732.41

\$24.08

34/90

ENVIRONMENTAL PROTECTION ACT

O. Reg. 416/90.  
Effluent Monitoring—Organic Chemical  
Manufacturing Sector.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
ONTARIO REGULATION 209/89  
MADE UNDER THE  
ENVIRONMENTAL PROTECTION ACT

- 1.—(1) Subsection 3 (2) of Ontario Regulation 209/89, as remade by section 1 of Ontario

Regulation 45/90, is revoked and the following substituted:

- (2) For the purposes of this Regulation, the plants listed in Table 1 of subsection (2a) are in Category 1, the plants listed in Table 2 of subsection (2a) are in Category 2, the plants listed in Table 3 of subsection (2a) are in Category 3 and the plant listed in Table 4 of subsection (2a) is in Category 4. O. Reg. 416/90, s. 1 (1).
- (2) Subsection 3 (2a) of the Regulation, as made by section 2 of Ontario Regulation 532/89 and amended by section 1 of Ontario Regulation 45/90, is further amended by striking out item 2 in Table 1 and by adding the following Table:

TABLE 4

Item	Plant	Location	Owner as of June 18, 1990	Site-Specific Monitoring Schedule
1	CATEGORY 4 Arnprior Site	Arnprior	BASF Fibres Inc.	ZB

- 2.—(1) Section 17 of the Regulation, as amended by section 6 of Ontario Regulation 532/89 and section 2 of Ontario Regulation 45/90, is further amended by adding the following subsection:
- (1c) Each direct discharger whose plant is in Category 4 shall, by the 1st day of August, 1990, submit a report to the Director in respect of that discharger's plant, containing the information specified in subsection 7 (1) of the General Effluent Monitoring Regulation. O. Reg. 416/90, s. 2 (1).

(2) Subsection 17 (2) of the Regulation, as remade by section 2 of Ontario Regulation 45/90, is amended by striking out "or (1b)" in the third line and substituting "(1b) or (1c)".

(3) Section 17 of the Regulation, as amended by section 6 of Ontario Regulation 532/89 and section 2 of Ontario Regulation 45/90, is further amended by adding the following subsections:



(6c) Each direct discharger whose plant is in Category 4 shall, with respect to each flow measuring device used in meeting the requirements of this Regulation, submit to the Director documentation of any calibration or certification of accuracy required by subsections 16 (7) to (10) of this Regulation and subsection 6 (2) of the General Effluent Monitoring Regulation, by the 1st day of September, 1990. O. Reg. 416/90, s. 2 (3), *part*.

(7c) Subject to subsection (8c), each direct discharger whose plant is in Category 4 shall, with respect to each method, device or calculation for flow measurement or estimation used in meeting the requirements of this Regulation, submit to the Director, no later than thirty days after the first use of the method, device or calculation for the purposes of this Regulation, documentation sufficient to satisfy the Director that the method, device or calculation complies with the accuracy requirements of subsections 6 (3) and (6) of the General Effluent Monitoring Regulation. O. Reg. 416/90, s. 2 (3), *part*.

(8c) Each direct discharger whose plant is in Category 4 shall, no later than the 1st day of September, 1990, submit to the Director a description of the methods and calculations to be used in measuring or estimating the volume of discharge of storm water under subsection 16 (5), together with an assessment of the accuracy of those methods and calculations. O. Reg. 416/90, s. 2 (3), *part*.

(11b) Each direct discharger whose plant is in Category 4 shall report to the Director the date, approximate duration and amount of rainfall of each storm event that occurs during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991. O. Reg. 416/90, s. 2 (3), *part*.

(13b) Each direct discharger whose plant is in Category 4 shall report to the Director the date, duration and approximate volume of each discharge of waste disposal site effluent that occurs during the period beginning on the 1st day of August, 1990 and ending on the 31st day of July, 1991. O. Reg. 416/90, s. 2 (3), *part*.

(14b) Each direct discharger whose plant is in Category 4 shall report to the Director the date, location, duration and approximate volume of effluent discharged during each emergency overflow that occurs on or after the 1st day of August, 1990. O. Reg. 416/90, s. 2 (3), *part*.

**(4) Subsection 17 (16a) of the Regulation, as remade by section 2 of Ontario Regula-**

**tion 45/90, is revoked and the following substituted:**

(16a) Subsection (16) does not apply with respect to a plant in Category 4 in respect of sampling done in the months of August and September, 1990. O. Reg. 416/90, s. 2 (4).

**(5) Section 17 of the Regulation, as amended by section 6 of Ontario Regulation 532/89 and section 2 of Ontario Regulation 45/90, is further amended by adding the following subsection:**

(19b) Subject to subsection 3 (6) of the General Effluent Monitoring Regulation, each direct discharger whose plant is in Category 4 shall, no later than the 1st day of August, 1991, submit a report to the Director describing the variation in daily flow for a period of six months beginning on or after the 1st day of August, 1990 and ending on or before the 31st day of July, 1991 for each process effluent stream from which samples are collected other than by means of an automatic flow proportional composite sampling device. O. Reg. 416/90, s. 2 (5).

**3.—(1) Subsection 18 (2a) of the Regulation, as made by section 3 of Ontario Regulation 45/90, is revoked and the following substituted:**

(2a) Sections 5 to 16 do not apply with respect to a plant in Category 4 before the 1st day of August, 1990. O. Reg. 416/90, s. 3 (1).

**(2) Section 18 of the Regulation, as amended by section 7 of Ontario Regulation 532/89 and section 3 of Ontario Regulation 45/90, is further amended by adding the following subsection:**

(3b) Sections 5, 7 to 13 and 15 do not apply with respect to a plant in Category 4 after the 1st day of August, 1991. O. Reg. 416/90, s. 3 (2).

**4. The heading to the legend immediately preceding Schedule A to the Regulation, as amended by section 8 of Ontario Regulation 532/89 and section 4 of Ontario Regulation 45/90, is further amended by striking out "A to ZA" and substituting "A to ZB".**

**5. Schedule B to the Regulation, as remade by section 9 of Ontario Regulation 532/89, is revoked.**

**6. Schedules I and Q to the Regulation, as remade by section 6 of Ontario Regulation 45/90, are revoked and the following substituted:**



SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PP 1200				PP 1600				PP 1700				PP 1900			
TOXICITY TESTS REQUIRED:		No				No				No				No			
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days				Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days				Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED																	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED																
2	Total cyanide																
3	Hydrogen ion (pH)																
4a	Nitrogen																
4b	Nitrate + Nitrite																
5a	Organic carbon																
5b	Total organic carbon (TOC) (NOTE 1)																
6	Total phosphorus																
7	Specific conductance																
8	Suspended solids (TSS/VSS)																
9	Total metals																
	Aluminum																
	Beryllium																
	Boron																
	Cadmium																
	Chromium																
	Cobalt																
	Copper																

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 1200												PP 1600												PP 1700												PR 1900											
TOXICITY TESTS REQUIRED:		No												No												No												No											
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days												Quarterly 60 days												Quarterly 60 days												Quarterly 60 days											
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		Semi-annually 180 days												Quarterly 60 days												Quarterly 60 days												Quarterly 60 days											
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		Semi-annually 180 days												Quarterly 60 days												Quarterly 60 days												Quarterly 60 days											
FREQUENCY OF SAMPLING:		D TW W M												D TW W M												D TW W M												D TW W M											
PARAMETERS TO BE ANALYZED																																																	
ANALYTICAL TEST GROUP																																																	
9	Total metals (continued)	Lead																																															
		Molybdenum																																															
		Nickel																																															
		Silver																																															
		Thallium																																															
		Vanadium																																															
11	Chromium (Hexavalent)	Zinc																																															
		Chromium (Hexavalent) (NOTE 2)																																															
12	Mercury	Mercury																																															
14	Phenolics (4AAP)	Phenolics (4AAP)*																																															
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane																																															
		1,1,2-Trichloroethane																																															
		1,1-Dichloroethane																																															
		1,1-Dichloroethylene																																															
		1,2-Dichlorobenzene																																															
		1,2-Dichloroethane (Ethylene dichloride)																																															
		1,2-Dichloropropane																																															
		1,3-Dichlorobenzene																																															
		1,4-Dichlorobenzene																																															
		Bromodichloromethane																																															
		Bromoform																																															
		Bromomethane																																															
		Carbon tetrachloride																																															

**EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR**  
**SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)**

EFFLUENT STREAM:		PP 1200		PP 1600		PP 1700		PP 1900	
TOXICITY TESTS REQUIRED:		No		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days		60 days		60 days		60 days	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D		M		D		M	
		TW	W	TW	W	TW	W	TW	W
16 Volatiles, Halogenated (continued)	Chlorobenzene			•••				•••	
	Chloroform		•••				•••		
	Chloromethane			•••			•••		
	Cis-1,3-Dichloropropylene			•••			•••		
	Dibromochloromethane			•••			•••		
	Ethylene dibromide			•••			•••		
	Methylene chloride			•••			•••		
	Tetrachloroethylene (Perchloroethylene)			•••			•••		
	Trans-1,2-Dichloroethylene			•••			•••		
	Trans-1,3-Dichloropropylene			•••			•••		
	Trichloroethylene			•••			•••		
	Trichlorofluoromethane			•••			•••		
	Vinyl chloride (Chloroethylene)			•••			•••		
	Benzene		•••						
	Ethylbenzene			•••					
	Styrene			•••					
	Toluene			•••					
	o-Xylene			•••					
	m-Xylene and p-Xylene (NOTE 4)			•••					
17 Volatiles, Non-Halogenated	Acenaphthene								
	5-nitro Acenaphthene								
	Acenaphthylene								
	Anthracene								
	Benz(a)anthracene								
	Benzo(a)pyrene								
19 Extractables, Base Neutral	Acenaphthene			•••					
	5-nitro Acenaphthene			•••					
	Acenaphthylene			•••					
	Anthracene			•••					
	Benz(a)anthracene			•••					
	Benzo(a)pyrene			•••					



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 1200			PR 1600			PR 1700			PR 1900		
TOXICITY TESTS REQUIRED:		No			No			No			No		
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	Semi-annually 180 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:												
FREQUENCY OF SAMPLING:		D	TW	M	D	TW	M	D	TW	M	D	TW	M
PARAMETERS TO BE ANALYZED													
19 Extractables, Base Neutral (continued)	Benzo(b)fluoranthene			•••									•••
	Benzo(g,h,i)perylene			•••									•••
	Benzo(k)fluoranthene			•••									•••
	Biphenyl			•••									•••
	Camphene			•••									•••
	1-Chloronaphthalene			•••									•••
	2-Chloronaphthalene			•••									•••
	Chrysene			•••									•••
	Dibenz(a,h)anthracene			•••									•••
	Fluoranthene			•••									•••
	Fluorene			•••									•••
	Indeno(1,2,3-cd)pyrene			•••									•••
	Indole			•••									•••
	1-Methylnaphthalene			•••									•••
	2-Methylnaphthalene			•••									•••
	Naphthalene			•••									•••
	Perylene			•••									•••
	Phenanthrene			•••									•••
	Pyrene			•••									•••
	Benzyl butyl phthalate												
	Bis(2-ethylhexyl) phthalate												
	Di-n-butyl phthalate												
	Di-n-octyl phthalate												
	4-Bromophenyl phenyl ether												
	4-Chlorophenyl phenyl ether												
	Bis(2-chloroisopropyl)ether												
	Bis(2-chloroethyl)ether												



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PP 1200		PP 1600		PP 1700		PP 1900	
TOXICITY TESTS REQUIRED:		No		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
PARAMETERS TO BE ANALYZED		D		D		D		D	
ANALYTICAL TEST GROUP		Tw		Tw		Tw		Tw	
19 Extractables, Base Neutral (continued)	Diphenyl ether								
	2,4-Dinitrotoluene								
	2,6-Dinitrotoluene								
	Bis(2-chloroethoxy)methane								
	Diphenylamine (NOTE 5)								
	N-Nitrosodiphenylamine (NOTE 5)								
20 Extractables, Acid (Phenolics)	N-Nitrosodi-n-propylamine								
	2,3,4,5-Tetrachlorophenol								
	2,3,4,6-Tetrachlorophenol								
	2,3,5,6-Tetrachlorophenol								
	2,3,4-Trichlorophenol								
	2,3,5-Trichlorophenol								
	2,4,5-Trichlorophenol								
	2,4,6-Trichlorophenol								
	2,4-Dimethyl phenol								
	2,4-Dinitrophenol								
	2,4-Dichlorophenol								
	2,6-Dichlorophenol								
	4,6-Dinitro-o-cresol								
	2-Chlorophenol								
	4-Chloro-3-methylphenol								
	4-Nitrophenol								
	m-Cresol								
	o-Cresol								
	p-Cresol								

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 1200		PP 1600		PP 1700		PR 1300	
TOXICITY TESTS REQUIRED:		No		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		D		D		D		D	
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:		TW	W	M	D	TW	W	M
	PARAMETERS TO BE ANALYZED								
20	Extractables, Acid (Phenolics) (continued)	Pentachlorophenol							
		Phenol							
23	Extractables, Neutral -Chlorinated	1,2,3,4-Tetrachlorobenzene							
		1,2,3,5-Tetrachlorobenzene							
		1,2,4,5-Tetrachlorobenzene							
		1,2,3-Trichlorobenzene							
		1,2,4-Trichlorobenzene							
		2,4,5-Trichlorotoluene							
		Hexachlorobenzene							
		Hexachlorobutadiene							
		Hexachlorocyclopentadiene							
		Hexachloroethane							
		Octachlorostyrene							
		Pentachlorobenzene							

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE I - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 1200		PR 1600		PR 1700		PR 1900	
TOXICITY TESTS REQUIRED:		No		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days		60 days		60 days		60 days	
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED									
24 Chlorinated Dibenzo-p-dioxins and Dibenzofurans	2,3,7,8-Tetrachlorodibenzo-p-dioxin				•••				
	Octachlorodibenzo-p-dioxin				•••				
	Octachlorodibenzofuran				•••				
	Total heptachlorinated dibenzo-p-dioxins				•••				
	Total heptachlorinated dibenzofurans				•••				
	Total hexachlorinated dibenzo-p-dioxins				•••				
	Total hexachlorinated dibenzofurans				•••				
	Total pentachlorinated dibenzo-p-dioxins				•••				
	Total pentachlorinated dibenzofurans				•••				
	Total tetrachlorinated dibenzo-p-dioxins				•••				
25 Solvent Extractables	Total tetrachlorinated dibenzofurans				•••				
	Oil and grease				•••				•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 2000		PR 2100		CO 0200		CO 0500	
TOXICITY TESTS REQUIRED:		No		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Semi-annually 180 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Semi-annually 180 days	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:		D		M		D	
		D	TW	W	M	D	TW	W	M
2	Total cyanide								
3	Hydrogen ion (pH)	•••				•••			
4a	Nitrogen								
4b	Ammonia plus Ammonium Total Kjeldahl nitrogen Nitrate + Nitrite								•••
5a	Organic carbon	•••				•••			
5b	Total organic carbon (TOC) (NOTE 1)	•••				•••			
6	Total phosphorus					•••			•••
7	Specific conductance	•••				•••			
8	Suspended solids (TSS/VSS) Total suspended solids (TSS) Volatile suspended solids (VSS)	•••				•••			•••
9	Total metals Aluminum Beryllium Boron Cadmium Chromium Cobalt Copper					•••			



## EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR

## SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 2000		PR 2100		CO 0200		CO 0500	
TOXICITY TESTS REQUIRED:		No		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Quarterly 60 days		Quarterly 60 days		Semi-annually 180 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		D	TW	W	M	D	TW	W	M
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED							
9	Total metals (continued)	Lead							
		Molybdenum							
		Nickel							
		Silver							
		Thallium							
		Vanadium							
		Zinc							
11	Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)							
12	Mercury	Mercury							
14	Phenolics (4AAP)	Phenolics (4AAP)*							
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane							
		1,1,2-Trichloroethane							
		1,1-Dichloroethane							
		1,1-Dichloroethylene							
		1,2-Dichlorobenzene							
		1,2-Dichloroethane (Ethylene dichloride)							
		1,2-Dichloropropane							
		1,3-Dichlorobenzene							
		1,4-Dichlorobenzene							
		Bromodichloromethane							
		Bromoform							
		Bromomethane							
		Carbon tetrachloride							



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE I - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		PR 2000			PR 2100			CO 0200			CO 0500		
TOXICITY TESTS REQUIRED:		No			Yes			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days			Quarterly 60 days			Quarterly 60 days			Semi-annually 180 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days			Quarterly 60 days			Quarterly 60 days			Semi-annually 180 days		
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED													
ANALYTICAL TEST GROUP	20 Extractables, Acid (Phenolics) (continued)	4-Chloro-3-methylphenol											
		4-Nitrophenol											
		m-Cresol											
		o-Cresol											
		p-Cresol											
		Pentachlorophenol											
ANALYTICAL TEST GROUP	23 Extractables, Neutral -Chlorinated	Phenol											
		1,2,3,4-Tetrachlorobenzene											
		1,2,3,5-Tetrachlorobenzene											
		1,2,4,5-Tetrachlorobenzene											
		1,2,3-Trichlorobenzene											
		1,2,4-Trichlorobenzene											
		2,4,5-Trichlorotoluene											
		Hexachlorobenzene											
		Hexachlorobutadiene											
		Hexachlorocyclopentadiene											
		Hexachloroethane											
		Octachlorostyrene											
ANALYTICAL TEST GROUP	25 Solvent Extractables	Pentachlorobenzene											
		Oil and grease											
ANALYTICAL TEST GROUP	27 PCBs												
		PCBs (Total)											









EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		CO 0600		CO 0700		CO 0900		OT 0300	OT 1000
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes		Yes	Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		None	None
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D		M		D		M	
		TW	W	TW	W	TW	W	TW	W
17	Volatiles, Non-Halogenated (continued)								
	Toluene			•••				•••	
	o-Xylene			•••				•••	
	m-Xylene and p-Xylene (NOTE 4)			•••				•••	
20	Extractables, Acid (Phenolics)								
	2,3,4,5-Tetrachlorophenol							•••	
	2,3,4,6-Tetrachlorophenol							•••	
	2,3,5,6-Tetrachlorophenol							•••	
	2,3,4-Trichlorophenol							•••	
	2,3,5-Trichlorophenol							•••	
	2,4,5-Trichlorophenol							•••	
	2,4,6-Trichlorophenol							•••	
	2,4-Dimethyl phenol							•••	
	2,4-Dinitrophenol							•••	
	2,4-Dichlorophenol							•••	
	2,6-Dichlorophenol							•••	
	4,6-Dinitro-o-cresol							•••	
	2-Chlorophenol							•••	
	4-Chloro-3-methylphenol							•••	
	4-Nitrophenol							•••	
	m-Cresol							•••	
	o-Cresol							•••	
	p-Cresol							•••	
	Pentachlorophenol							•••	
	Phenol							•••	

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		CO 0600		CO 0700		CO 0900		OT 0300/OT 1000	
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		None	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D		TW		W		M	
		D		TW		W		M	
23 Extractables, Neutral -Chlorinated	1,2,3,4-Tetrachlorobenzene								
	1,2,3,5-Tetrachlorobenzene								
	1,2,4,5-Tetrachlorobenzene								
	1,2,3-Trichlorobenzene								
	1,2,4-Trichlorobenzene								
	2,4,5-Trichlorobenzene								
	Hexachlorobenzene								
	Hexachlorobutadiene								
	Hexachlorocyclopentadiene								
	Hexachloroethane								
25 Solvent Extractables	Octachlorostyrene								
	Pentachlorobenzene								
	Oil and grease								



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		WA 2200	WA 2300	EM 1300	EI 1400
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:		during discharge during discharge during discharge during discharge		
	PARAMETERS TO BE ANALYZED				
2	Total cyanide				•••
3	Hydrogen ion (pH)		•••	•••	•••
4a	Nitrogen			•••	•••
	Ammonia plus Ammonium			•••	•••
4b	Total Kjeldahl nitrogen			•••	•••
	Nitrate + Nitrite			•••	•••
5a	Organic carbon		•••	•••	•••
	Dissolved organic carbon (DOC)		•••	•••	•••
5b			•••	•••	•••
	Total organic carbon (TOC) (NOTE 1)		•••	•••	•••
6	Total phosphorus		•••	•••	•••
			•••	•••	•••
7	Specific conductance		•••	•••	•••
			•••	•••	•••
8	Suspended solids (TSS/VSS)		•••	•••	•••
	Total suspended solids (TSS)		•••	•••	•••
9	Total metals		•••	•••	•••
	Aluminum		•••	•••	•••
	Beryllium		•••	•••	•••
	Boron		•••	•••	•••
	Cadmium		•••	•••	•••
	Chromium		•••	•••	•••
	Cobalt		•••	•••	•••
	Copper		•••	•••	•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		WA 2200	WA 2300	EM 1300	ET 1400
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
PARAMETERS TO BE ANALYZED					
ANALYTICAL TEST GROUP					
9 Total metals (continued)	Lead	•••	•••	•••	•••
	Molybdenum	•••	•••	•••	•••
	Nickel	•••	•••	•••	•••
	Silver	•••	•••	•••	•••
	Thallium	•••	•••	•••	•••
	Vanadium	•••	•••	•••	•••
	Zinc	•••	•••	•••	•••
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)	•••	•••	•••	•••
12 Mercury	Mercury	•••	•••	•••	•••
14 Phenolics (4AAP)	Phenolics (4AAP)*	•••	•••	•••	•••
16 Volatiles, Halogenated	1,1,2,2-Tetrachloroethane				•••
	1,1,2-Trichloroethane				•••
	1,1-Dichloroethane				•••
	1,1-Dichloroethylene				•••
	1,2-Dichlorobenzene				•••
	1,2-Dichloroethane (Ethylene dichloride)				•••
	1,2-Dichloropropane				•••
	1,3-Dichlorobenzene				•••
	1,4-Dichlorobenzene				•••
	Bromodichloromethane				•••
	Bromoform				•••
	Bromomethane				•••
					•••
					•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		WA 2200	WA 2300	EM 1300	EM 1400
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
PARAMETERS TO BE ANALYZED					
ANALYTICAL TEST GROUP					
16 Volatiles, Halogenated (continued)	Chlorobenzene				•••
	Chloroform				•••
	Chloromethane				•••
	Cis-1,3-Dichloropropylene				•••
	Dibromochloromethane				•••
	Ethylene dibromide				•••
	Methylene chloride				•••
	Tetrachloroethylene (Perchloroethylene)				•••
	Trans-1,2-Dichloroethylene				•••
	Trans-1,3-Dichloropropylene				•••
	Trichloroethylene				•••
17 Volatiles, Non-Halogenated	Trichlorofluoromethane				•••
	Vinyl chloride (Chloroethylene)				•••
	Benzene			•••	•••
	Ethylbenzene			•••	•••
	Styrene			•••	•••
	Toluene			•••	•••
	o-Xylene			•••	•••
	m-Xylene and p-Xylene (NOTE 4)			•••	•••
	Acrolein				•••
	Acrylonitrile				•••
	Acenaphthene			•••	
18 Volatiles, Water Soluble	5-nitro Acenaphthene			•••	
	Acenaphthylene			•••	
19 Extractables, Base Neutral				•••	
				•••	



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		WA 2200	WA 2300	EM 1300	EM 1400
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None	None	None	None
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED				
19 Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether				
	Bis(2-chloroisopropyl) ether				
	Bis(2-chloroethyl) ether				
	Diphenyl ether				
	2,4-Dinitrotoluene				
	2,6-Dinitrotoluene				
	Bis(2-chloroethoxy) methane				
	Diphenylamine (NOTE 5)				
	N-Nitrosodiphenylamine (NOTE 5)				
	N-Nitrosodi-n-propylamine				
20 Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol			•••	•••
	2,3,4,6-Tetrachlorophenol			•••	•••
	2,3,5,6-Tetrachlorophenol			•••	•••
	2,3,4-Trichlorophenol			•••	•••
	2,3,5-Trichlorophenol			•••	•••
	2,4,5-Trichlorophenol			•••	•••
	2,4,6-Trichlorophenol			•••	•••
	2,4-Dimethyl phenol			•••	•••
	2,4-Dinitrophenol			•••	•••
	2,4-Dichlorophenol			•••	•••
	2,6-Dichlorophenol			•••	•••
	4,6-Dinitro-o-cresol			•••	•••
	2-Chlorophenol			•••	•••
	4-Chloro-3-methylphenol			•••	•••
	4-Nitrophenol			•••	•••
				•••	•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		WA 2200	WA 2300	EM 1300	EM 1400
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:		during discharge		during discharge
	PARAMETERS TO BE ANALYZED		during discharge		during discharge
20 Extractables, Acid (Phenolics) (continued)	m-Cresol			•••	•••
	o-Cresol			•••	•••
	p-Cresol			•••	•••
	Pentachlorophenol			•••	•••
	Phenol			•••	•••
23 Extractables, Neutral -Chlorinated	1,2,3,4-Tetrachlorobenzene				•••
	1,2,3,5-Tetrachlorobenzene				•••
	1,2,4,5-Tetrachlorobenzene				•••
	1,2,3-Trichlorobenzene				•••
	1,2,4-Trichlorobenzene				•••
	2,4,5-Trichlorotoluene				•••
	Hexachlorobenzene				•••
	Hexachlorobutadiene				•••
	Hexachlorocyclopentadiene				•••
	Hexachloroethane				•••
25 Solvent Extractables	Octachlorostyrene				•••
	Pentachlorobenzene				•••
	Oil and grease	•••	•••	•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		E1 1500
TOXICITY TESTS REQUIRED:		No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		
FREQUENCY OF SAMPLING:		during discharge
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	
2	Total cyanide	
3	Hydrogen ion (pH)	•••
4a	Nitrogen	•••
4b	Ammonia plus Ammonium	•••
	Total Kjeldahl nitrogen	•••
	Nitrate + Nitrite	•••
5a	Organic carbon	•••
5b	Dissolved organic carbon (DOC)	
	Total organic carbon (TOC) (NOTE 1)	•••
6	Total phosphorus	•••
7	Specific conductance	•••
8	Suspended solids (TSS/VSS)	•••
9	Total metals	
	Aluminum	•••
	Beryllium	•••
	Boron	•••
	Cadmium	•••
	Chromium	•••
	Cobalt	•••
	Copper	•••

EFFLUENT STREAM:		TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		No	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None	
ANALYTICAL TEST GROUP		FREQUENCY OF SAMPLING:	
		PARAMETERS TO BE ANALYZED	
9	Total metals (continued)	Lead	•••
		Molybdenum	•••
		Nickel	•••
		Silver	•••
		Thallium	•••
		Vanadium	•••
		Zinc	•••
11	Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)	•••
12	Mercury	Mercury	•••
14	Phenolics (4AAP)	Phenolics (4AAP)*	•••
20	Extractables, Acid (Phenolics)	2,3,4,5- Tetrachlorophenol	•••
		2,3,4,6- Tetrachlorophenol	•••
		2,3,5,6- Tetrachlorophenol	•••
		2,3,4- Trichlorophenol	•••
		2,3,5- Trichlorophenol	•••
		2,4,5- Trichlorophenol	•••
		2,4,6- Trichlorophenol	•••
		2,4-Dimethyl phenol	•••
		2,4-Dinitrophenol	•••
		2,4-Dichlorophenol	•••
		2,6-Dichlorophenol	•••
		4,6-Dinitro-o-cresol	•••
		2-Chlorophenol	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 1 - DOW CHEMICAL CANADA INC. (SARNIA)

EFFLUENT STREAM:		EM 1500
TOXICITY TESTS REQUIRED:		
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		No
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		
FREQUENCY OF SAMPLING:		
during discharge		
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	
20 Extractables, Acid (Phenolics (continued)	4-Chloro-3-methylphenol	•••
	4-Nitrophenol	•••
	m-Cresol	•••
	o-Cresol	•••
	p-Cresol	•••
	Pentachlorophenol	•••
	Phenol	•••
25 Solvent Extractables	Oil and grease	•••

O. Reg. 416/90, s. 6, part.



# EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR

EFFLUENT STREAM:		TOXICITY TESTS REQUIRED:												PR 0300		PR 0900		PR 1800		CO 0200	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):												Quarterly 60 days		Quarterly 60 days		Quarterly 60 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:												Quarterly 60 days		Quarterly 60 days		Quarterly 60 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:												Quarterly 60 days		Quarterly 60 days		Quarterly 60 days			
FREQUENCY OF SAMPLING:		FREQUENCY OF SAMPLING:												D		D		D			
PARAMETERS TO BE ANALYZED		PARAMETERS TO BE ANALYZED												D		D		D			
2	Total cyanide																				
3	Hydrogen ion (pH)																				
4a	Nitrogen																				
4b	Nitrate + Nitrite																				
5a	Organic carbon																				
5b	Total organic carbon (TOC) (NOTE 1)																				
6	Total phosphorus																				
7	Specific conductance																				
8	Suspended solids (TSS/VSS)																				
9	Total metals																				
	Aluminum																				
	Beryllium																				
	Boron																				
	Cadmium																				
	Chromium																				
	Cobalt																				
	Copper																				

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		PR 0300			PR 0900			PR 1800			CO 0200		
TOXICITY TESTS REQUIRED:		No			No			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED													
9	Total metals (continued)												
	Lead												
	Molybdenum												
	Nickel												
	Silver												
	Thallium												
	Vanadium												
	Zinc												
10	Hydrides												
	Antimony												
	Arsenic												
	Selenium												
	Chromium (Hexavalent) (NOTE 2)												
11	Chromium (Hexavalent)												
	Mercury												
	Phenolics (4AAP)												
12	Mercury												
14	Phenolics (4AAP)												
16	Volatiles, Halogenated												
	1,1,2,2-Tetrachloroethane												
	1,1,2-Trichloroethane												
	1,1-Dichloroethane												
	1,1-Dichloroethylene												
	1,2-Dichlorobenzene												
	1,2-Dichloroethane (Ethylene dichloride)												
	1,2-Dichloropropane												
	1,3-Dichlorobenzene												
	1,4-Dichlorobenzene												

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		PR 0300			PR 0900			PR 1800			CO 0200		
TOXICITY TESTS REQUIRED:		No			No			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:			D			D			D		
		D	TW	W	M	D	TW	W	M	D	TW	W	M
16 Volatiles, Halogenated (continued)	Bromodichloromethane												
	Bromoform												
	Bromomethane												
	Carbon tetrachloride												
	Chlorobenzene												
	Chloroform												
	Chloromethane												
	Cis-1,3-Dichloropropylene												
	Dibromochloromethane												
	Ethylene dibromide												
	Methylene chloride												
	Tetrachloroethylene (Perchloroethylene)												
	Trans-1,2-Dichloroethylene												
	Trans-1,3-Dichloropropylene												
	Trichloroethylene												
17 Volatiles, Non-Halogenated	Trichlorofluoromethane												
	Vinyl chloride (Chloroethylene)												
	Benzene												
	Ethylbenzene												
	Styrene												
	Toluene												
	o-Xylene												
	m-Xylene and p-Xylene (NOTE 4)												
	Acrolein												
	Acrylonitrile												
18 Volatiles, Water Soluble													



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		PR 0300			PR 0900			PR 1800			CO 0200		
TOXICITY TESTS REQUIRED:		No			No			Yes			Yes		
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):			CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:			CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:			CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		
		MINIMUM INTERVAL:			MINIMUM INTERVAL:			MINIMUM INTERVAL:			MINIMUM INTERVAL:		
19	Extractables, Base Neutral	D			D			D			D		
		TW	W	M	TW	W	M	TW	W	M	TW	W	M
	Acenaphthene												
	5-nitro Acenaphthene												
	Acenaphthylene												
	Anthracene												
	Benz(a)anthracene												
	Benzo(a)pyrene												
	Benzo(b)fluoranthene												
	Benzo(g,h,i)perylene												
	Benzo(k)fluoranthene												
	Biphenyl												
	Camphene												
	1-Chloronaphthalene												
	2-Chloronaphthalene												
	Chrysene												
	Dibenz(a,h)anthracene												
	Fluoranthene												
	Fluorene												
	Indeno(1,2,3-cd)pyrene												
	Indole												
	1-Methylnaphthalene												
	2-Methylnaphthalene												
	Naphthalene												
	Perylene												
	Phenanthrene												
	Pyrene												



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		PR 0300			PR 0900			PR 1800			CO 0200		
TOXICITY TESTS REQUIRED:		No			No			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly 60 days			Quarterly 60 days			Quarterly 60 days			Quarterly 60 days		
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D			D			D			D		
		Tw			Tw			Tw			Tw		
19 Extractables, Base Neutral (continued)	Benzyl butyl phthalate												
	Bis(2-ethylhexyl) phthalate												
	Di-n-butyl phthalate												
	Di-n-octyl phthalate												
	4-Bromophenyl phenyl ether												
	4-Chlorophenyl phenyl ether												
	Bis(2-chloroisopropyl) ether												
	Bis(2-chloroethyl) ether												
	Diphenyl ether												
	2,4-Dinitrotoluene												
	2,6-Dinitrotoluene												
	Bis(2-chloroethoxy) methane												
	Diphenylamine (NOTE 5)												
	N-Nitrosodiphenylamine (NOTE 5)												
	N-Nitrosodi-n-propylamine												
20 Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol												
	2,3,4,6-Tetrachlorophenol												
	2,3,5,6-Tetrachlorophenol												
	2,3,4-Trichlorophenol												
	2,3,5-Trichlorophenol												
	2,4,5-Trichlorophenol												
	2,4,6-Trichlorophenol												
	2,4-Dimethyl phenol												
	2,4-Dinitrophenol												
	2,4-Dichlorophenol												
	2,6-Dichlorophenol												

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		PR 0300		PR 0900		PR 1800		CO 0200	
TOXICITY TESTS REQUIRED:		No		No		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED									
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D	TW	W	M	D	TW	W	M
20	Extractables, Acid (Phenolics)								
	(continued)								
	4,6-Dinitro-o-cresol								
	2-Chlorophenol								
	4-Chloro-3-methylphenol								
	4-Nitrophenol								
	m-Cresol								
	o-Cresol								
	p-Cresol								
	Pentachlorophenol								
23	Phenol								
	1,2,3,4-Tetrachlorobenzene								
	1,2,3,5-Tetrachlorobenzene								
	1,2,4,5-Tetrachlorobenzene								
	1,2,3-Trichlorobenzene								
	1,2,4-Trichlorobenzene								
	2,4,5-Trichlorotoluene								
	Hexachlorobenzene								
	Hexachlorobutadiene								
	Hexachlorocyclopentadiene								
	Hexachloroethane								
	Octachlorostyrene								
	Pentachlorobenzene								
25	Oil and grease								
27	PCBs (Total)								

EFFLUENT MONITORING REGULATION – ORGANIC CHEMICAL MANUFACTURING SECTOR

SCHEDULE Q – POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		CO 0400		CO 0500		CO 1100		BA 1700	
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:				D			
		D	TW	W	M	D	TW	W	M
2	Total cyanide								
3	Hydrogen ion (pH)								
4a	Nitrogen								
4b	Ammonia plus Ammonium								
	Total Kjeldahl nitrogen								
	Nitrate + Nitrite								
5a	Organic carbon								
5b	Dissolved organic carbon (DOC)								
6	Total organic carbon (TOC) (NOTE 1)								
6	Total phosphorus								
7	Specific conductance								
8	Total suspended solids (TSS)								
	Volatile suspended solids (VSS)								
9	Total metals								
	Aluminum								
	Beryllium								
	Boron								
	Cadmium								
	Chromium								
	Cobalt								
	Copper								



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		CO 0400				CO 0500				CO 1100				BA 1700				
TOXICITY TESTS REQUIRED:		Yes				Yes				Yes				Yes				
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Quarterly				Quarterly				Quarterly				Quarterly				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				60 days				60 days				60 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly				Quarterly				Quarterly				Quarterly				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				60 days				60 days				60 days				
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M	D	TW	W	M	
PARAMETERS TO BE ANALYZED																		
9	Total metals (continued)	Lead																
		Molybdenum				•••								•••				•••
		Nickel				•••								•••				•••
		Silver				•••								•••				•••
		Thallium				•••								•••				•••
		Vanadium				•••								•••				•••
		Zinc			•••								•••				•••	
10	Hydrides	Antimony												•••				•••
		Arsenic												•••				•••
		Selenium												•••				•••
11	Chromium (Hexavalent)												•••				•••	
12	Mercury												•••					
14	Phenolics (4AAP)*												•••					
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane				•••								•••				
		1,1,2-Trichloroethane				•••								•••				
		1,1-Dichloroethane				•••								•••				
		1,1-Dichloroethylene				•••								•••				
		1,2-Dichlorobenzene				•••								•••				
		1,2-Dichloroethane (Ethylene dichloride)				•••								•••				
		1,2-Dichloropropane				•••								•••				
		1,3-Dichlorobenzene				•••								•••				
1,4-Dichlorobenzene				•••								•••						



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		CO 0400			CO 0500			CO 1100			BA 1700		
TOXICITY TESTS REQUIRED:		Yes			Yes			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:			D			M			D		
		D	TW	W	D	TW	W	D	TW	W	D	TW	W
16 Volatiles, Halogenated (continued)	Bromodichloromethane												
	Bromoform												
	Bromomethane												
	Carbon tetrachloride												
	Chlorobenzene												
	Chloroform												
	Chloromethane												
	Cis-1,3-Dichloropropylene												
	Dibromochloromethane												
	Ethylene dibromide												
	Methylene chloride												
	Tetrachloroethylene (Perchloroethylene)												
	Trans-1,2-Dichloroethylene												
	Trans-1,3-Dichloropropylene												
	Trichloroethylene												
	Trichlorofluoromethane												
	Vinyl chloride (Chloroethylene)												
17 Volatiles, Non-Halogenated	Benzene												
	Ethylbenzene												
	Styrene												
	Toluene												
	o-Xylene												
	m-Xylene and p-Xylene (NOTE 4)												
18 Volatiles, Water Soluble	Acrolein												
	Acrylonitrile												

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		CO 0400			CO 0500			CO 1100			BA 1700		
TOXICITY TESTS REQUIRED:		Yes			Yes			Yes			Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly			Quarterly			Quarterly			Quarterly		
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days			60 days			60 days			60 days		
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED													
19	Extractables, Base Neutral	Acenaphthene											
		5-nitro Acenaphthene											
		Acenaphthylene											
		Anthracene											
		Benz(a)anthracene											
		Benzo(a)pyrene											
		Benzo(b)fluoranthene											
		Benzo(g,h,i)perylene											
		Benzo(k)fluoranthene											
		Biphenyl											
		Camphene											
		1-Chloronaphthalene											
		2-Chloronaphthalene											
		Chrysene											
		Dibenz(a,h)anthracene											
		Fluoranthene											
		Fluorene											
		Indeno(1,2,3-cd)pyrene											
		Indole											
		1-Methylnaphthalene											
		2-Methylnaphthalene											
		Naphthalene											
		Perylene											
		Phenanthrene											
		Pyrene											

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		CO 0400		CO 0500		CO 1100		BA 1700	
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days	
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED		D	TW	W	M	D	TW	W	M
19 Extractables, Base Neutral (continued)	Benzyl butyl phthalate								
	Bis(2-ethylhexyl) phthalate								
	Di-n-butyl phthalate								
	Di-n-octyl phthalate								
	4-Bromophenyl phenyl ether								
	4-Chlorophenyl phenyl ether								
	Bis(2-chloroisopropyl) ether								
	Bis(2-chloroethyl) ether								
	Diphenyl ether								
	2,4-Dinitrotoluene								
	2,6-Dinitrotoluene								
	Bis(2-chloroethoxy) methane								
	Diphenylamine (NOTE 5)								
20 Extractables, Acid (Phenolics)	N-Nitrosodiphenylamine (NOTE 5)								
	N-Nitrosodi-n-propylamine								
	2,3,4,5-Tetrachlorophenol					•••			
	2,3,4,6-Tetrachlorophenol					•••			
	2,3,5,6-Tetrachlorophenol					•••			
	2,3,4-Trichlorophenol					•••			
	2,3,5-Trichlorophenol					•••			
	2,4,5-Trichlorophenol					•••			
	2,4,6-Trichlorophenol					•••			
	2,4-Dimethyl phenol					•••			
	2,4-Dinitrophenol					•••			
	2,4-Dichlorophenol					•••			
	2,6-Dichlorophenol					•••			



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

		EFFLUENT STREAM:												CO 0500												CO 1100												BA 1700											
		TOXICITY TESTS REQUIRED:												Yes												Yes												Yes											
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Quarterly												Quarterly												Quarterly												Quarterly											
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days												60 days												60 days												60 days											
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly												Quarterly												Quarterly												Quarterly											
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days												60 days												60 days												60 days											
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:												D												TW												M											
		D												TW												W												D											
20	Extractables, Acid (Phenolics)																																																
	4,6-Dinitro-o-cresol																																																
	2-Chlorophenol																																																
	4-Chloro-3-methylphenol																																																
	4-Nitrophenol																																																
	m-Cresol																																																
	o-Cresol																																																
	p-Cresol																																																
23	Pentachlorophenol																																																
	Phenol																																																
	1,2,3,4-Tetrachlorobenzene																																																
	1,2,3,5-Tetrachlorobenzene																																																
	1,2,4,5-Tetrachlorobenzene																																																
	1,2,3-Trichlorobenzene																																																
	1,2,4-Trichlorobenzene																																																
	2,4,5-Trichlorotoluene																																																
	Hexachlorobenzene																																																
	Hexachlorobutadiene																																																
	Hexachlorocyclopentadiene																																																
	Hexachloroethane																																																
	Octachlorostyrene																																																
	Pentachlorobenzene																																																
25	Solvent Extractables																																																
	Oil and grease																																																
27	PCBs																																																
	PCBs (Total)																																																



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

		EFFLUENT STREAM:										EM 0700	EM 0800
		TOXICITY TESTS REQUIRED:										No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None										None	None
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:													
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:													
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:												None	None
FREQUENCY OF SAMPLING:		M										during discharge	during discharge
PARAMETERS TO BE ANALYZED													
ANALYTICAL TEST GROUP													
2	Total cyanide	Total cyanide										•••	•••
3	Hydrogen ion (pH)	Hydrogen ion (pH)										•••	•••
4a	Nitrogen	Ammonia plus Ammonium Total Kjeldahl nitrogen										•••	•••
4b		Nitrate + Nitrite										•••	
5a	Organic carbon	Dissolved organic carbon (DOC)										•••	•••
5b		Total organic carbon (TOC) (NOTE 1)										•••	•••
6	Total phosphorus	Total phosphorus										•••	•••
7	Specific conductance	Specific conductance										•••	•••
8	Suspended solids (TSS/VSS)	Total suspended solids (TSS) Volatile suspended solids (VSS)										•••	•••
9	Total metals	Aluminum Beryllium Boron Cadmium Chromium Cobalt Copper										•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:										EM 0800	
TOXICITY TESTS REQUIRED:										EM 0700	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):										No	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:										None	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:										None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:										None	
FREQUENCY OF SAMPLING:										during discharge/during discharge	
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED									
9	Total metals (continued)	Lead	Yes	No	No	No	No	No	No	No	No
		Molybdenum	None	None	None	None	None	None	None	None	None
		Nickel	None	None	None	None	None	None	None	None	None
		Silver	None	None	None	None	None	None	None	None	None
		Thallium	None	None	None	None	None	None	None	None	None
		Vanadium	None	None	None	None	None	None	None	None	None
		Zinc	None	None	None	None	None	None	None	None	None
10	Hydrides	Antimony	Yes	No	No	No	No	No	No	No	No
		Arsenic	None	None	None	None	None	None	None	None	None
		Selenium	None	None	None	None	None	None	None	None	None
		Chromium (Hexavalent) (NOTE 2)	None	None	None	None	None	None	None	None	None
12	Mercury										
14	Phenolics (4AAP)										
16	Volatiles, Halogenated	Phenolics (4AAP)*	Yes	No	No	No	No	No	No	No	No
		1,1,2,2-Tetrachloroethane	None	None	None	None	None	None	None	None	None
		1,1,2-Trichloroethane	None	None	None	None	None	None	None	None	None
		1,1-Dichloroethane	None	None	None	None	None	None	None	None	None
		1,1-Dichloroethylene	None	None	None	None	None	None	None	None	None
		1,2-Dichlorobenzene	None	None	None	None	None	None	None	None	None
		1,2-Dichloroethane (Ethylene dichloride)	None	None	None	None	None	None	None	None	None
		1,2-Dichloropropane	None	None	None	None	None	None	None	None	
		1,3-Dichlorobenzene	None	None	None	None	None	None	None	None	None
		1,4-Dichlorobenzene	None	None	None	None	None	None	None	None	None

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		OT 1400	ST 1300	ST 1500	ST 1600	ST 2200	EM 0700	EM 0800
TOXICITY TESTS REQUIRED:		Yes	No	No	No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL: CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None	None	None	None	None	None	None
		None	None	None	None	None	None	None
		None	None	None	None	None	None	None
FREQUENCY OF SAMPLING:		M	M	M	M	M	during discharge	during discharge
PARAMETERS TO BE ANALYZED								
16 Volatiles, Halogenated (continued)	Bromodichloromethane	•••	•••	•••	•••	•••	•••	•••
	Bromoform	•••	•••	•••	•••	•••	•••	•••
	Bromomethane	•••	•••	•••	•••	•••	•••	•••
	Carbon tetrachloride	•••	•••	•••	•••	•••	•••	•••
	Chlorobenzene	•••	•••	•••	•••	•••	•••	•••
	Chloroform	•••	•••	•••	•••	•••	•••	•••
	Chloromethane	•••	•••	•••	•••	•••	•••	•••
	Cis-1,3-Dichloropropylene	•••	•••	•••	•••	•••	•••	•••
	Dibromochloromethane	•••	•••	•••	•••	•••	•••	•••
	Ethylene dibromide	•••	•••	•••	•••	•••	•••	•••
	Methylene chloride	•••	•••	•••	•••	•••	•••	•••
	Tetrachloroethylene (Perchloroethylene)	•••	•••	•••	•••	•••	•••	•••
	Trans-1,2-Dichloroethylene	•••	•••	•••	•••	•••	•••	•••
	Trans-1,3-Dichloropropylene	•••	•••	•••	•••	•••	•••	•••
	Trichloroethylene	•••	•••	•••	•••	•••	•••	•••
17 Volatiles, Non-Halogenated	Trichlorofluoromethane	•••	•••	•••	•••	•••	•••	•••
	Vinyl chloride (Chloroethylene)	•••	•••	•••	•••	•••	•••	•••
	Benzene	•••	•••	•••	•••	•••	•••	•••
	Ethylbenzene	•••	•••	•••	•••	•••	•••	•••
	Styrene	•••	•••	•••	•••	•••	•••	•••
	Toluene	•••	•••	•••	•••	•••	•••	•••
	o-Xylene	•••	•••	•••	•••	•••	•••	•••
18 Volatiles, Water Soluble	m-Xylene and p-Xylene (NOTE 4)	•••	•••	•••	•••	•••	•••	•••
	Acrolein	•••	•••	•••	•••	•••	•••	•••
	Acrylonitrile	•••	•••	•••	•••	•••	•••	•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		OT	1400	ST	1300	ST	1500	ST	1600	ST	2200	EM	0700	EM	0800
TOXICITY TESTS REQUIRED:			Yes	No	No	No	No	No	No	No	No	No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):			None	None	None	None	None	None	None	None	None	None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:															
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:			None	None	None	None	None	None	None	None	None	None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:			M	M	M	M	M	M	M	M	M	during discharge	during discharge	during discharge	during discharge
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:		PARAMETERS TO BE ANALYZED												
	PARAMETERS TO BE ANALYZED														
19 Extractables, Base Neutral	Acenaphthene														•••
	5-nitro Acenaphthene														•••
	Acenaphthylene														•••
	Anthracene														•••
	Benz(a)anthracene														•••
	Benzo(a)pyrene														•••
	Benzo(b)fluoranthene														•••
	Benzo(g,h,i)perylene														•••
	Benzo(k)fluoranthene														•••
	Biphenyl														•••
	Camphene														•••
	1-Chloronaphthalene														•••
	2-Chloronaphthalene														•••
	Chrysene														•••
	Dibenz(a,h)anthracene														•••
	Fluoranthene														•••
	Fluorene														•••
	Indeno(1,2,3-cd)pyrene														•••
	Indole														•••
	1-Methylnaphthalene														•••
	2-Methylnaphthalene														•••
	Naphthalene														•••
	Perylene														•••
	Phenanthrene														•••
	Pyrene														•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		OT 1400	ST 1300	ST 1500	ST 1600	ST 2200	EM 0700	EM 0800
TOXICITY TESTS REQUIRED:		Yes	No	No	No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None	None	None	None
FREQUENCY OF SAMPLING:		M	M	M	M	M	during discharge	during discharge
PARAMETERS TO BE ANALYZED								
19 Extractables, Base Neutral (continued)	Benzyl butyl phthalate						•••	•••
	Bis(2-ethylhexyl) phthalate						•••	•••
	Di-n-butyl phthalate						•••	•••
	Di-n-octyl phthalate						•••	•••
	4-Bromophenyl phenyl ether						•••	•••
	4-Chlorophenyl phenyl ether						•••	•••
	Bis(2-chloroisopropyl)ether						•••	•••
	Bis(2-chloroethyl)ether						•••	•••
	Diphenyl ether						•••	•••
	2,4-Dinitrotoluene						•••	•••
	2,6-Dinitrotoluene						•••	•••
	Bis(2-chloroethoxy)methane						•••	•••
	Diphenylamine (NOTE 5)						•••	•••
20 Extractables, Acid (Phenolics)	N-Nitrosodiphenylamine (NOTE 5)						•••	•••
	N-Nitrosodi-n-propylamine						•••	•••
	2,3,4,5-Tetrachlorophenol					•••	•••	•••
	2,3,4,6-Tetrachlorophenol					•••	•••	•••
	2,3,5,6-Tetrachlorophenol					•••	•••	•••
	2,3,4-Trichlorophenol					•••	•••	•••
	2,3,5-Trichlorophenol					•••	•••	•••
	2,4,5-Trichlorophenol					•••	•••	•••
	2,4,6-Trichlorophenol					•••	•••	•••
	2,4-Dimethyl phenol					•••	•••	•••
	2,4-Dinitrophenol					•••	•••	•••
	2,4-Dichlorophenol					•••	•••	•••
	2,6-Dichlorophenol					•••	•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:											
TOXICITY TESTS REQUIRED:											
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):											
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:											
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:											
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:											
FREQUENCY OF SAMPLING:											
PARAMETERS TO BE ANALYZED											
ANALYTICAL TEST GROUP											
20	Extractables, Acid (Phenolics) (continued)	4,6-Dinitro-o-cresol									
		2-Chlorophenol									
		4-Chloro-3-methylphenol									
		4-Nitrophenol									
		m-Cresol									
		o-Cresol									
		p-Cresol									
		Pentachlorophenol									
		Phenol									
23	Extractables, Neutral -Chlorinated	1,2,3,4-Tetrachlorobenzene		•••					•••	•••	•••
		1,2,3,5-Tetrachlorobenzene		•••					•••	•••	•••
		1,2,4,5-Tetrachlorobenzene		•••					•••	•••	•••
		1,2,3-Trichlorobenzene		•••					•••	•••	•••
		1,2,4-Trichlorobenzene		•••					•••	•••	•••
		2,4,5-Trichlorotoluene		•••					•••	•••	•••
		Hexachlorobenzene		•••					•••	•••	•••
		Hexachlorobutadiene		•••					•••	•••	•••
		Hexachlorocyclopentadiene		•••					•••	•••	•••
		Hexachloroethane		•••					•••	•••	•••
		Octachlorostyrene		•••					•••	•••	•••
		Pentachlorobenzene		•••					•••	•••	•••
25	Solvent Extractables	Oil and grease	•••	•••	•••	•••	•••	•••	•••	•••	•••
27	PCBs	PCBs (Total)									

EFFLUENT STREAM:		EM 1000	EM 1201	EM 1202	EM 1203
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge			
PARAMETERS TO BE ANALYZED		during discharge			
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	during discharge			
2	Total cyanide	•••	•••	•••	•••
3	Hydrogen ion (pH)	•••	•••	•••	•••
4a	Ammonia plus Ammonium	•••	•••	•••	•••
	Total Kjeldahl nitrogen	•••	•••	•••	•••
4b	Nitrate + Nitrite	•••	•••	•••	•••
5a	Dissolved organic carbon (DOC)	•••	•••	•••	•••
5b	Total organic carbon (TOC) (NOTE 1)	•••	•••	•••	•••
6	Total phosphorus	•••	•••	•••	•••
7	Specific conductance	•••	•••	•••	•••
8	Total suspended solids (TSS)	•••	•••	•••	•••
	Volatile suspended solids (VSS)				
9	Total metals	•••	•••	•••	•••
	Beryllium	•••	•••	•••	•••
	Boron	•••	•••	•••	•••
	Cadmium	•••	•••	•••	•••
	Chromium	•••	•••	•••	•••
	Cobalt	•••	•••	•••	•••
	Copper	•••	•••	•••	•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1000	EM 1201	EM 1202	EM 1203
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
ANALYTICAL TEST GROUP		PARAMETERS TO BE ANALYZED			
9	Total metals (continued)	Lead	•••	•••	•••
		Molybdenum	•••	•••	•••
		Nickel	•••	•••	•••
		Silver	•••	•••	•••
		Thallium	•••	•••	•••
		Vanadium	•••	•••	•••
		Zinc	•••	•••	•••
10	Hydrides	Antimony	•••	•••	•••
		Arsenic	•••	•••	•••
		Selenium	•••	•••	•••
		Chromium (Hexavalent) (NOTE 2)	•••	•••	•••
11	Chromium (Hexavalent)				
12	Mercury				
14	Phenolics (4AAP)	Phenolics (4AAP)*	•••	•••	•••
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane	•••	•••	•••
		1,1,2-Trichloroethane	•••	•••	•••
		1,1-Dichloroethane	•••	•••	•••
		1,1-Dichloroethylene	•••	•••	•••
		1,2-Dichlorobenzene	•••	•••	•••
		1,2-Dichloroethane (Ethylene dichloride)	•••	•••	•••
		1,2-Dichloropropane	•••	•••	•••
		1,3-Dichlorobenzene	•••	•••	•••
		1,4-Dichlorobenzene	•••	•••	•••



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1000	EM 1201	EM 1202	EM 1203
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
PARAMETERS TO BE ANALYZED					
ANALYTICAL TEST GROUP	16	Volatiles, Halogenated (continued)			
		Bromodichloromethane	•••	•••	•••
		Bromoform	•••	•••	•••
		Bromomethane	•••	•••	•••
		Carbon tetrachloride	•••	•••	•••
		Chlorobenzene	•••	•••	•••
		Chloroform	•••	•••	•••
		Chloromethane	•••	•••	•••
		Cis-1,3-Dichloropropylene	•••	•••	•••
		Dibromochloromethane	•••	•••	•••
		Ethylene dibromide	•••	•••	•••
		Methylene chloride	•••	•••	•••
		Tetrachloroethylene (Perchloroethylene)	•••	•••	•••
		Trans-1,2-Dichloroethylene	•••	•••	•••
		Trans-1,3-Dichloropropylene	•••	•••	•••
		Trichloroethylene	•••	•••	•••
17		Trichlorofluoromethane	•••	•••	•••
		Vinyl chloride (Chloroethylene)	•••	•••	•••
		Benzene	•••	•••	•••
		Ethylbenzene	•••	•••	•••
		Styrene	•••	•••	•••
		Toluene	•••	•••	•••
20		o-Xylene	•••	•••	•••
		m-Xylene and p-Xylene (NOTE 4)	•••	•••	•••
20		Extractables, Acid (Phenolics)	•••	•••	•••
		2,3,4,5-Tetrachlorophenol	•••	•••	•••
20		2,3,4,6-Tetrachlorophenol	•••	•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1000	EM 1201	EM 1202	EM 1203
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:				
	PARAMETERS TO BE ANALYZED				
20 Extractables, Acid (Phenolics) (continued)	2,3,5,6-Tetrachlorophenol	•••	•••	•••	•••
	2,3,4-Trichlorophenol	•••	•••	•••	•••
	2,3,5-Trichlorophenol	•••	•••	•••	•••
	2,4,5-Trichlorophenol	•••	•••	•••	•••
	2,4,6-Trichlorophenol	•••	•••	•••	•••
	2,4-Dimethyl phenol	•••	•••	•••	•••
	2,4-Dinitrophenol	•••	•••	•••	•••
	2,4-Dichlorophenol	•••	•••	•••	•••
	2,6-Dichlorophenol	•••	•••	•••	•••
	4,6-Dinitro-o-cresol	•••	•••	•••	•••
	2-Chlorophenol	•••	•••	•••	•••
	4-Chloro-3-methylphenol	•••	•••	•••	•••
	4-Nitrophenol	•••	•••	•••	•••
	m-Cresol	•••	•••	•••	•••
	o-Cresol	•••	•••	•••	•••
	p-Cresol	•••	•••	•••	•••
	Pentachlorophenol	•••	•••	•••	•••
	Phenol	•••	•••	•••	•••
23 Extractables, Neutral -Chlorinated	1,2,3,4-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,3,5-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,4,5-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,3-Trichlorobenzene	•••	•••	•••	•••
	1,2,4-Trichlorobenzene	•••	•••	•••	•••
	2,4,5-Trichlorotoluene	•••	•••	•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1000	EM 1201	EM 1202	EM 1203
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED				
23 Extractables, Neutral -Chlorinated (continued)	Hexachlorobenzene	•••	•••	•••	•••
	Hexachlorobutadiene	•••	•••	•••	•••
	Hexachlorocyclopentadiene	•••	•••	•••	•••
	Hexachloroethane	•••	•••	•••	•••
	Octachlorostyrene	•••	•••	•••	•••
	Pentachlorobenzene	•••	•••	•••	•••
25 Solvent Extractables	Oil and grease	•••	•••	•••	•••





EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1301	EM 1302	EM 1900	EM 2000
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED				
9 Total metals (continued)	Lead	•••	•••	•••	•••
	Molybdenum	•••	•••	•••	•••
	Nickel	•••	•••	•••	•••
	Silver	•••	•••	•••	•••
	Thallium	•••	•••	•••	•••
	Vanadium	•••	•••	•••	•••
	Zinc	•••	•••	•••	•••
10 Hydrides	Antimony	•••	•••	•••	•••
	Arsenic	•••	•••	•••	•••
	Selenium	•••	•••	•••	•••
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)	•••	•••	•••	•••
14 Phenolics (4AAP)	Phenolics (4AAP)*	•••	•••	•••	•••
16 Volatiles, Halogenated	1,1,2,2-Tetrachloroethane	•••	•••	•••	•••
	1,1,2-Trichloroethane	•••	•••	•••	•••
	1,1-Dichloroethane	•••	•••	•••	•••
	1,1-Dichloroethylene	•••	•••	•••	•••
	1,2-Dichlorobenzene	•••	•••	•••	•••
	1,2-Dichloroethane (Ethylene dichloride)	•••	•••	•••	•••
	1,2-Dichloropropane	•••	•••	•••	•••
	1,3-Dichlorobenzene	•••	•••	•••	•••
	1,4-Dichlorobenzene	•••	•••	•••	•••
	Bromodichloromethane	•••	•••	•••	•••
	Bromoform	•••	•••	•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1301	EM 1302	EM 1900	EM 2000
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:					
FREQUENCY OF SAMPLING:		during discharge			
PARAMETERS TO BE ANALYZED		during discharge			
ANALYTICAL TEST GROUP		during discharge			
16 Volatiles, Halogenated (continued)	Bromomethane	•••	•••	•••	•••
	Carbon tetrachloride	•••	•••	•••	•••
	Chlorobenzene	•••	•••	•••	•••
	Chloroform	•••	•••	•••	•••
	Chloromethane	•••	•••	•••	•••
	Cis-1,3-Dichloropropylene	•••	•••	•••	•••
	Dibromochloromethane	•••	•••	•••	•••
	Ethylene dibromide	•••	•••	•••	•••
	Methylene chloride	•••	•••	•••	•••
	Tetrachloroethylene (Perchloroethylene)	•••	•••	•••	•••
	Trans-1,2-Dichloroethylene	•••	•••	•••	•••
	Trans-1,3-Dichloropropylene	•••	•••	•••	•••
	Trichloroethylene	•••	•••	•••	•••
	Trichlorofluoromethane	•••	•••	•••	•••
	Vinyl chloride (Chloroethylene)	•••	•••	•••	•••
17 Volatiles, Non-Halogenated	Benzene	•••	•••	•••	•••
	Ethylbenzene	•••	•••	•••	•••
	Styrene	•••	•••	•••	•••
	Toluene	•••	•••	•••	•••
	p-Xylene	•••	•••	•••	•••
	m-Xylene and p-Xylene (NOTE 4)	•••	•••	•••	•••
18 Volatiles, Water Soluble	Acrolein	•••	•••		•••
	Acrylonitrile	•••	•••		•••

## EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR

## SCHEDULE Q - POLYSAR LIMITED (SARNIA)

EFFLUENT STREAM:		EM 1301	EM 1302	EM 1900	EM 2000
TOXICITY TESTS REQUIRED:		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	None	None	None
FREQUENCY OF SAMPLING:		during discharge	during discharge	during discharge	during discharge
PARAMETERS TO BE ANALYZED					
ANALYTICAL TEST GROUP					
20 Extractables, Acid (Phenolics)	2,3,4,5-Tetrachlorophenol	•••	•••	•••	•••
	2,3,4,6-Tetrachlorophenol	•••	•••	•••	•••
	2,3,5,6-Tetrachlorophenol	•••	•••	•••	•••
	2,3,4-Trichlorophenol	•••	•••	•••	•••
	2,3,5-Trichlorophenol	•••	•••	•••	•••
	2,4,5-Trichlorophenol	•••	•••	•••	•••
	2,4,6-Trichlorophenol	•••	•••	•••	•••
	2,4-Dimethyl phenol	•••	•••	•••	•••
	2,4-Dinitrophenol	•••	•••	•••	•••
	2,4-Dichlorophenol	•••	•••	•••	•••
	2,6-Dichlorophenol	•••	•••	•••	•••
	4,6-Dinitro-o-cresol	•••	•••	•••	•••
	2-Chlorophenol	•••	•••	•••	•••
	4-Chloro-3-methylphenol	•••	•••	•••	•••
	4-Nitrophenol	•••	•••	•••	•••
23 Extractables, Neutral -Chlorinated	m-Cresol	•••	•••	•••	•••
	o-Cresol	•••	•••	•••	•••
	p-Cresol	•••	•••	•••	•••
	Pentachlorophenol	•••	•••	•••	•••
	Phenol	•••	•••	•••	•••
	1,2,3,4-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,3,5-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,4,5-Tetrachlorobenzene	•••	•••	•••	•••
	1,2,3-Trichlorobenzene	•••	•••	•••	•••
	1,2,4-Trichlorobenzene	•••	•••	•••	•••
	2,4,5-Trichlorotoluene	•••	•••	•••	•••





EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE W - DU PONT CANADA INC. (WHITBY)

7. Schedule W, X, Y and Z to the Regulation, as made by section 8 of Ontario Regulation 45/90, are revoked and the following substituted:

EFFLUENT STREAM:		CO 0200		CO 0700				OT 0300	OT 0400	OT 0500	OT 0600
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes		Yes	Yes	Yes	Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually		Semi-annually		Semi-annually		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days		180 days		180 days		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days		180 days		180 days		None	None	None	None
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	M	M
PARAMETERS TO BE ANALYZED											
ANALYTICAL TEST GROUP	3	Hydrogen ion (pH)									
		•••									
5a	Organic carbon	Dissolved organic carbon (DOC)									
		•••									
5b		Total organic carbon (TOC) (NOTE 1)									
		•••									
6	Total phosphorus										
		•••									
7	Specific conductance										
		•••									
8	Suspended solids (TSS/VSS)	Total suspended solids (TSS)									
		•••									
		Volatile suspended solids (VSS)									
9	Total metals	Aluminum									
		•••									
		Beryllium									
		•••									
		Boron									
		•••									
		Cadmium									
		•••									
		Chromium									
		•••									
		Cobalt									
		•••									
		Copper									
		•••									
		Lead									
		•••									
		Molybdenum									
		•••									
		Nickel									
		•••									
		Silver									
		•••									
		Thallium									
		•••									
		Vanadium									
		•••									
		Zinc									
		•••									

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE W - DU PONT CANADA INC. (WHITBY)

EFFLUENT STREAM:		CO 0200		CO 0700		OT 0300	OT 0400	OT 0500	OT 0600
TOXICITY TESTS REQUIRED:		Yes		Yes		Yes	Yes	Yes	Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Semi-annually		Semi-annually		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		130 days		180 days			None	None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Semi-annually		Semi-annually		None	None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		130 days		180 days			None	None	None
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:		D		Tw	W	M	
		D	Tw	W	M	D	Tw	W	M
11	Chromium (Hexavalent)								
	Chromium (Hexavalent) (NOTE 2)				•••			•••	
14	Phenolics (4AAP)*			•••				•••	
25	Solvent Extractables			•••				•••	
	Oil and grease							•••	

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE W - DU PONT CANADA INC. (WHITBY)

EFFLUENT STREAM: ST 0100	
TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):	No
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	M
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED
3	Hydrogen ion (pH)
5a	Dissolved organic carbon (DOC)
5b	Total organic carbon (TOC) (NOTE 1)
6	Total phosphorus
7	Specific conductance
8	Total suspended solids (TSS)
	Volatile suspended solids (VSS)
9	Aluminum
	Beryllium
	Boron
	Cadmium
	Chromium
	Cobalt
	Copper
	Lead
	Molybdenum
	Nickel
	Silver
	Thallium
	Vanadium
	Zinc

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE W - DU PONT CANADA INC. (WHITBY)

EFFLUENT STREAM: ST 0100	
TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	Nc
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	Norie
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	Norie
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	
FREQUENCY OF SAMPLING:	M
ANALYTICAL TEST GROUP	
PARAMETERS TO BE ANALYZED	
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)
	●●●
14 Phenolics (4AAP)	Phenolics (4AAP)*
	●●●
25 Solvent Extractables	Oil and grease
	●●●

O. Reg. 416/90, s. 7, part.



EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE X - AMOCO CANADA RESOURCES LTD. (SARNIA)

EFFLUENT STREAM:		CO 0100		ST 0400	EM 0200		EM 0300
TOXICITY TESTS REQUIRED:		Yes		No	No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days					
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly		None	None	None	None
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		60 days					
FREQUENCY OF SAMPLING:		D	TW	W	M	M	during discharge
PARAMETERS TO BE ANALYZED							during discharge
3	Hydrogen ion (pH)	•••				•••	•••
4a	Ammonia plus Ammonium				•••	•••	•••
	Total Kjeldahl nitrogen	•••				•••	•••
4b	Nitrate + Nitrite				•••	•••	•••
5a	Dissolved organic carbon (DOC)	•••				•••	•••
5b	Total organic carbon (TOC) (NOTE 1)	•••				•••	•••
6	Total phosphorus			•••		•••	•••
7	Specific conductance	•••				•••	•••
8	Total suspended solids (TSS)	•••				•••	•••
	Volatile suspended solids (VSS)						
9	Aluminum	•••				•••	•••
	Beryllium				•••	•••	•••
	Boron			•••		•••	•••
	Cadmium				•••	•••	•••
	Chromium			•••		•••	•••
	Cobalt				•••	•••	•••
	Copper				•••	•••	•••
	Lead			•••		•••	•••
	Polybdenum	•••				•••	•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE X - AMOCO CANADA RESOURCES LTD. (SARNIA)

EFFLUENT STREAM:		CO 0100		ST 0400	E11 0200	E11 0300
TOXICITY TESTS REQUIRED:		Yes		No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Quarterly		None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly		None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:			during discharge	during discharge
		D	TW	W		
9 Total metals (continued)	Nickel			•••	•••	•••
	Silver			•••	•••	•••
	Thallium			•••	•••	•••
	Vanadium			•••	•••	•••
	Zinc		•••		•••	•••
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)		•••		•••	•••
12 Mercury	Mercury		•••		•••	•••
14 Phenolics (4AAP)	Phenolics (4AAP)*	•••			•••	•••
15 Sulphide	Sulphide	•••			•••	•••
16 Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			•••	•••	•••
	1,1,2-Trichloroethane			•••	•••	•••
	1,1-Dichloroethane			•••	•••	•••
	1,1-Dichloroethylene			•••	•••	•••
	1,2-Dichlorobenzene	•••			•••	•••
	1,2-Dichloroethane (Ethylene dichloride)			•••	•••	•••
	1,2-Dichloropropane			•••	•••	•••
	1,3-Dichlorobenzene			•••	•••	•••
	1,4-Dichlorobenzene			•••	•••	•••
	Bromodichloromethane			•••	•••	•••
	Bromoform			•••	•••	•••
	Bromomethane			•••	•••	•••
	Carbon tetrachloride			•••	•••	•••

EFFLUENT STREAM:		CO 0100		ST 0-400	EM 0200	EM 0300
TOXICITY TESTS REQUIRED:		Yes		No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Quarterly		None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		Quarterly		None	None	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days				
FREQUENCY OF SAMPLING:		D	TW	W	M	during discharge
PARAMETERS TO BE ANALYZED						during discharge
ANALYTICAL TEST GROUP						
16 Volatiles, Halogenated (continued)	Chlorobenzene			•••		•••
	Chloroform			•••		•••
	Chloromethane				•••	•••
	Cis-1,3-Dichloropropylene				•••	•••
	Dibromochloromethane				•••	•••
	Ethylene dibromide				•••	•••
	Methylene chloride			•••		•••
	Tetrachloroethylene (Perchloroethylene)			•••		•••
	Trans-1,2-Dichloroethylene			•••		•••
	Trans-1,3-Dichloropropylene				•••	•••
	Trichloroethylene			•••		•••
	Trichlorofluoromethane			•••		•••
	Vinyl chloride (Chloroethylene)			•••		•••
	2,3,4,5-Tetrachlorophenol			•••		•••
	2,3,4,6-Tetrachlorophenol			•••		•••
20 Extractables, Acid (Phenolics)	2,3,5,6-Tetrachlorophenol			•••		•••
	2,3,4-Trichlorophenol			•••		•••
	2,3,5-Trichlorophenol			•••		•••
	2,4,5-Trichlorophenol			•••		•••
	2,4,6-Trichlorophenol			•••		•••
	2,4-Dimethyl phenol			•••		•••
	2,4-Dinitrophenol			•••		•••
	2,4-Dichlorophenol			•••		•••
	2,6-Dichlorophenol			•••		•••
	4,6-Dinitro-o-cresol			•••		•••
	2-Chlorophenol			•••		•••

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE X - AMOCO CANADA RESOURCES LTD. (SARNIA)

		EFFLUENT STREAM:					ST 0400		EM 0200		EM 0300	
		TOXICITY TESTS REQUIRED:					Yes		No		No	
		CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):					Quarterly		None		None	
		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					60 days					
		CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:					Quarterly		None		None	
		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:					60 days					
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:					D		M		during discharge	
							Tw		W		during discharge	
20 Extractables, Acid (Phenolics) (continued)	4-Chloro-3-methylphenol											
	4-Nitrophenol										•••	•••
	m-Cresol										•••	•••
	o-Cresol										•••	•••
	p-Cresol										•••	•••
	Pentachlorophenol										•••	•••
25 Solvent Extractables	Phenol										•••	•••
	Oil and grease										•••	•••

O. Reg. 416/90, s. 7, part.



[illegible]

EFFLUENT MONITORING REGULATION – ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE Y – GUARDSMAN PRODUCTS LTD. (CORNWALL)

EFFLUENT STREAM: OT 0100	
TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):	Yes
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None
FREQUENCY OF SAMPLING:	M
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)
17 Volatiles, Non-Halogenated	Benzene
	Ethylbenzene
	Styrene
	Toluene
	o-Xylene
	m-Xylene and p-Xylene (NOTE 4)
25 Solvent Extractions	Oil and grease

O. Reg. 416/90, s. 7, part.

## SCHEDULE Z - MORBERN INC. (CORNWALL)

EFFLUENT STREAM: OT 0100		TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		Yes	None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:			
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		M	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED		
3	Hydrogen ion (pH)		•••
5a	Organic carbon		•••
5b	Total organic carbon (TOC) (NOTE 1)		•••
6	Total phosphorus		•••
7	Specific conductance		•••
8	Suspended solids (TSS/VSS)		•••
	Volatiles suspended solids (VSS)		•••
9	Total metals		•••
	Aluminum		•••
	Beryllium		•••
	Boron		•••
	Cadmium		•••
	Chromium		•••
	Cobalt		•••
	Copper		•••
	Lead		•••
	Molybdenum		•••
	Nickel		•••
	Silver		•••
	Thallium		•••
	Vanadium		•••
	Zinc		•••





EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE 2 - MORBERN INC. (CORNWALL)

EFFLUENT STREAM: OT 0100	
TOXICITY TESTS REQUIRED:	
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:	
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:	
FREQUENCY OF SAMPLING:	
PARAMETERS TO BE ANALYZED	
ANALYTICAL TEST GROUP	
16 Volatiles, Halogenated (continued)	Methylene chloride
	Tetrachloroethylene (Perchloroethylene)
	Trans-1,2-Dichloroethylene
	Trans-1,3-Dichloropropylene
	Trichloroethylene
	Trichlorofluoromethane
17 Volatiles, Non-Halogenated	Vinyl chloride (Chloroethylene)
	Benzene
	Ethylbenzene
	Styrene
	Toluene
	o-Xylene
25 Solvent Extractables	m-Xylene and p-Xylene (NOTE 4)
	Oil and grease

O. Reg. 416/90, s. 7, part.

8. The Regulation is amended by adding the following Schedule:

EFFLUENT MONITORING REGULATION - ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE ZB - BASF FIBRES INC. (ARMPRIOR)

EFFLUENT STREAM:		OT 0100
TOXICITY TESTS REQUIRED:		Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		
FREQUENCY OF SAMPLING:		1
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	
3	Hydrogen ion (pH)	•••
4a	Ammonia plus Ammonium	•••
	Total Kjeldahl nitrogen	•••
4b	Nitrate + Nitrite	
5a	Dissolved organic carbon (DOC)	•••
5b	Total organic carbon (TOC) (NOTE 1)	•••
6	Total phosphorus	•••
7	Specific conductance	•••
8	Total suspended solids (TSS)	•••
	Volatile suspended solids (VSS)	
9	Aluminum	•••
	Beryllium	•••
	Boron	•••
	Cadmium	•••
	Chromium	•••
	Cobalt	•••
	Copper	•••
	Lead	•••
	Molybdenum	•••

EFFLUENT STREAM: OT 0100		TOXICITY TESTS REQUIRED:		Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None
FREQUENCY OF SAMPLING:		PARAMETERS TO BE ANALYZED		11
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED			
9 Total metals (continued)	Nickel		●●●	
	Silver		●●●	
	Thallium		●●●	
	Vanadium		●●●	
	Zinc		●●●	
11 Chromium (Hexavalent)	Chromium (Hexavalent) (NOTE 2)		●●●	
14 Phenolics (4AAP)	Phenolics (4AAP)*		●●●	
15 Sulphide	Sulphide		●●●	
19 Extractables, Base Neutral	Acenaphthene			
	5-nitro Acenaphthene			
	Acenaphthylene			
	Anthracene			
	Benz(a)anthracene			
	Benzof(a)pyrene			
	Benzof(b)fluoranthene			
	Benzof(g,h,i)perylene			
	Benzof(k)fluoranthene			
	Biphenyl		●●●	
	Camphene			
	1-Chloronaphthalene			
	2-Chloronaphthalene			
	Chrysene			
	Dibenz(a,h)anthracene			

EFFLUENT MONITORING REGULATION -- ORGANIC CHEMICAL MANUFACTURING SECTOR  
SCHEDULE ZB - BASF FIBRES INC. (ARNPRIOR)

EFFLUENT STREAM:		OT 0100
TOXICITY TESTS REQUIRED:		Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for AT6 24):		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		None
CHARACTERIZATION SAMPLING FREQUENCY FOR AT6 24:		None
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		11
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:	
	PARAMETERS TO BE ANALYZED	
19 Extractables, Base Neutral (continued)	Fluoranthene	
	Fluorene	
	Indeno(1,2,3-cd)pyrene	
	Indole	
	1-Methylnaphthalene	
	2-Methylnaphthalene	
	Naphthalene	
	Perylene	
	Phenanthrene	
	Pyrene	
	Benzyl butyl phthalate	
	Bis(2-ethylhexyl) phthalate	
	Di-n-butyl phthalate	
	Di-n-octyl phthalate	
	4-Bromophenyl phenyl ether	
	4-Chlorophenyl phenyl ether	
	Bis(2-chloroisopropyl) ether	
	Bis(2-chloroethyl) ether	•••
	Diphenyl ether	•••
	2,4-Dinitrotoluene	
	2,6-Dinitrotoluene	
	Bis(2-chloroethoxy)methane	
	Diphenylamine (NOTE 5)	
	N-Nitrosodiphenylamine (NOTE 5)	
	N-Nitrosodi-n-propylamine	
25 Solvent Extractables	Oil and grease	•••



ENVIRONMENTAL ASSESSMENT ACT

O. Reg. 417/90.  
Designation—St. Lawrence Cement Inc.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

DESIGNATION—ST. LAWRENCE CEMENT  
INC.

1. The accepting and processing of residential waste and other non-hazardous solid waste in order to recover refuse-derived fuel and the use of refuse-derived fuel in the manufacture of cement at the St. Lawrence Cement Inc. plant, located on part of lots 33 and 34 in Concession III, south of Dundas Street in the City of Mississauga, in The Regional Municipality of Peel is designated as an undertaking to which the Act applies. O. Reg. 417/90, s. 1.

34/90

REGULATION MADE UNDER THE  
ENVIRONMENTAL ASSESSMENT ACT

ENVIRONMENTAL PROTECTION ACT

O. Reg. 418/90.  
Effluent Monitoring—Inorganic Chemical  
Sector.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
ONTARIO REGULATION 395/89  
MADE UNDER THE  
ENVIRONMENTAL PROTECTION ACT

1. Schedule H to Ontario Regulation 395/89, as remade by section 11 of Ontario Regulation 649/89, is revoked and the following substituted:

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		EFFLUENT STREAM TYPE:												Drainage Ditch after Emergency Containment Basin				Effluent from Gypsum Ponds				Effluent from 30" Concrete Pipe			
		TOXICITY TEST REQUIRED:												No				No				No			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Quarterly 60 days												Quarterly 60 days				Quarterly 60 days							
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days												Semi-annually 180 days				Semi-annually 180 days							
QUALITY CONTROL MONITORING REQUIRED:		Yes												No				No							
FREQUENCY OF SAMPLING:																									
PARAMETERS TO BE ANALYZED		D	TW	W	M	D	TW	W	M	D	TW	W	M	D	TW	W	M								
ANALYTICAL TEST GROUP																									
3	Hydrogen ion (pH)	XXX				XXX				XXX				XXX											
4a	Nitrogen	XXX				XXX				XXX				XXX											
4b		XXX				XXX				XXX				XXX											
5a	Organic carbon			XXX				XXX				XXX				XXX									
5b				XXX				XXX				XXX				XXX									
6	Total phosphorus			XXX				XXX				XXX				XXX									
7	Specific conductance	XXX								XXX				XXX											
8	Suspended solids (TSS/VSS)	XXX								XXX				XXX											
9	Total metals			XXX				XXX				XXX				XXX									

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBERTON WORKS (C+L INC.)

NAME OF EFFLUENT STREAM:		Drainage Ditch after Emergency Containment Basin Process				Effluent from Gypsum Ponds Combined				Effluent from 30" Concrete Pipe Combined				
EFFLUENT STREAM TYPE:		No				No				No				
TOXICITY TEST REQUIRED:		Quarterly 60 days				Quarterly 60 days				Quarterly 60 days				
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days				Semi-annually 180 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				No				No				
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No				
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M	
PARAMETERS TO BE ANALYZED														
9	Total metals (continued)	Copper				XXX				XXX				XXX
		Lead				XXX				XXX				XXX
		Molybdenum				XXX				XXX				XXX
		Nickel			XXX					XXX				XXX
		Silver				XXX				XXX				XXX
		Strontium				XXX				XXX				XXX
		Thallium				XXX				XXX				XXX
		Vanadium			XXX					XXX				XXX
		Zinc			XXX					XXX				XXX
10	Hydrides	Antimony								XXX				
		Arsenic								XXX				
		Selenium								XXX				
		Chromium (Hexavalent) (NOTE 2)			XXX					XXX				XXX
12	Mercury													
										XXX				
14	Phenolics (4AAP)	Phenolics (4AAP)				XXX				XXX				XXX
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane								XXX				XXX
		1,1,2-Trichloroethane								XXX				XXX
		1,1-Dichloroethane								XXX				XXX
		1,1-Dichloroethylene								XXX				XXX



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Drainage Ditch after Emergency Containment Basin Process				Effluent from Gypsum Ponds Combined				Effluent from 30" Concrete Pipe Combined				
EFFLUENT STREAM TYPE:		No				No				No				
TOXICITY TEST REQUIRED:		Quarterly 60 days				Quarterly 60 days				Quarterly 60 days				
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days				Semi-annually 180 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				No				No				
QUALITY CONTROL MONITORING REQUIRED:		D	TW	W	M	D	TW	W	M	D	TW	W	M	
FREQUENCY OF SAMPLING:														
PARAMETERS TO BE ANALYZED														
ANALYTICAL TEST GROUP														
	16 Volatiles, Halogenated (continued)	1,2-Dichlorobenzene												
		1,2-Dichloroethane (Ethylene dichloride)											XXX	XXX
		1,2-Dichloropropane											XXX	XXX
		1,3-Dichlorobenzene											XXX	XXX
		1,4-Dichlorobenzene											XXX	XXX
		Bromoform											XXX	XXX
		Bromomethane											XXX	XXX
		Carbon tetrachloride											XXX	XXX
		Chlorobenzene											XXX	XXX
		Chloroform											XXX	XXX
		Chloromethane											XXX	XXX
		Cis-1,3-Dichloropropylene											XXX	XXX
		Dibromochloromethane											XXX	XXX
		Ethylene dibromide											XXX	XXX
		Methylene chloride											XXX	XXX
Tetrachloroethylene (Perchloroethylene)												XXX	XXX	
Trans-1,2-Dichloroethylene											XXX	XXX		
Trans-1,3-Dichloropropylene											XXX	XXX		
Trichloroethylene											XXX	XXX		
Trichlorofluoromethane											XXX	XXX		
Vinyl chloride (Chloroethylene)											XXX	XXX		



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Drainage Ditch after Emergency Containment Basin				Effluent from Gypsum Ponds				Effluent from 30" Concrete Pipe			
EFFLUENT STREAM TYPE:		Process				Combined				Combined			
TOXICITY TEST REQUIRED:		No				No				No			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually 180 days				Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				No				No			
QUALITY CONTROL MONITORING REQUIRED:		D				D				D			
FREQUENCY OF SAMPLING:		TW				TW				TW			
PARAMETERS TO BE ANALYZED		M				M				M			
ANALYTICAL TEST GROUP		D				D				D			
		TW				TW				TW			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
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		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
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		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
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		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
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		W				W				W			
		M				M				M			
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		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
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		M				M				M			
		W				W				W			
		M				M				M			
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		M				M				M			
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		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			
		W				W				W			
		M				M				M			

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Drainage Ditch after Emergency Containment Basin Process				Effluent from Gypsum Ponds Combined				Effluent from 30" Concrete Pipe Combined			
EFFLUENT STREAM TYPE:		No				No				No			
TOXICITY TEST REQUIRED:		Quarterly 60 days				Quarterly 60 days				Quarterly 60 days			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				No				No			
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No			
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED													
19 Extractables, Base Neutral (continued)	Indole												
	1-Methylnaphthalene												
	2-Methylnaphthalene												
	Naphthalene												
	Perylene												
	Phenanthrene												
	Pyrene												
	Benzyl butyl phthalate									XXX			
	Bis(2-ethylhexyl) phthalate									XXX			
	Di-n-butyl phthalate									XXX			
	4-Bromophenyl phenyl ether									XXX			
	4-Chlorophenyl phenyl ether									XXX			
	Bis(2-chloroisopropyl)ether									XXX			
	Bis(2-chloroethyl)ether									XXX			
	Diphenyl ether									XXX			
	2,4-Dinitrotoluene									XXX			
	2,6-Dinitrotoluene									XXX			
	Bis(2-chloroethoxy)methane									XXX			
	Diphenylamine									XXX			
N-Nitrosodiphenylamine									XXX				
N-Nitrosodi-n-propylamine									XXX				
25 Solvent Extractables	Oil and grease			XXX					XXX				XXX

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Drainage Ditch after Emergency Containment Basin				Effluent from Gypsum Ponds				Effluent from 30" Concrete Pipe			
EFFLUENT STREAM TYPE:		Process				Combined				Combined			
TOXICITY TEST REQUIRED:		No				No				No			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:  CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		Quarterly 60 days		
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		
	CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		Semi-annually 180 days		
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No			
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED													
ANALYTICAL TEST GROUP													
	Fluoride			XXX		XXX				XXX		XXX	
C21 Fluoride													
	Sulphate		XXX				XXX				XXX		



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-I INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe	Effluent in Manhole #55	Effluent in 42" from A-II		
EFFLUENT STREAM TYPE:		OTOW	Combined	Combined		
TOXICITY TEST REQUIRED:		No	No	No		
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None	Quarterly 60 days	Quarterly 60 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None	Semi-annually 180 days	Semi-annually 180 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None	Semi-annually 180 days	Semi-annually 180 days		
QUALITY CONTROL MONITORING REQUIRED:		No	No	No		
FREQUENCY OF SAMPLING:		M	D	TW	W	M
PARAMETERS TO BE ANALYZED						
ANALYTICAL TEST GROUP						
3	Hydrogen Ion (pH)					
		XXX	XXX			
4a	Nitrogen					
	Ammonia plus Ammonium	XXX	XXX			
	Total Kjeldahl nitrogen	XXX	XXX			
4b	Nitrate + Nitrite					
		XXX	XXX			
5a	Organic carbon					
	Dissolved organic carbon (DOC)	XXX		XXX		XXX
5b						
	Total organic carbon (TOC) (NOTE 1)	XXX		XXX		XXX
6	Total phosphorus					
		XXX		XXX		XXX
7	Specific conductance					
		XXX	XXX		XXX	
8	Suspended solids (TSS/VSS)					
	Total suspended solids (TSS)	XXX	XXX		XXX	
	Volatile suspended solids (VSS)					
9	Total metals					
	Aluminum	XXX			XXX	XXX
	Beryllium	XXX			XXX	XXX
	Boron	XXX			XXX	XXX
	Cadmium	XXX			XXX	XXX
	Chromium	XXX			XXX	XXX
	Cobalt	XXX			XXX	XXX



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBERTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe		Effluent in Manhole #55		Effluent in 42" from A-11	
EFFLUENT STREAM TYPE:		OTOW		Combined		Combined	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None		Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None		Semi-annually 180 days		Semi-annually 180 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None		Semi-annually 180 days		Semi-annually 180 days	
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
FREQUENCY OF SAMPLING:		M		D		D	
PARAMETERS TO BE ANALYZED							
ANALYTICAL TEST GROUP							
9 Total metals (continued)	Copper		XXX		XXX		XXX
	Lead		XXX		XXX		XXX
	Molybdenum		XXX		XXX		XXX
	Nickel		XXX		XXX		XXX
	Silver		XXX		XXX		XXX
	Strontium		XXX		XXX		XXX
	Thallium		XXX		XXX		XXX
	Vanadium		XXX		XXX		XXX
10 Hydrides	Zinc		XXX		XXX		XXX
	Antimony						XXX
	Arsenic						XXX
	Selenium						XXX
11 Chromium (Hexavalent) (NOTE 2)	Chromium (Hexavalent)		XXX		XXX		XXX
12 Mercury	Mercury						
14 Phenolics (4AAP)	Phenolics (4AAP)		XXX		XXX		XXX
16 Volatiles, Halogenated	1,1,1,2,2-Tetrachloroethane						
	1,1,1,2-Trichloroethane						
	1,1-Dichloroethane						
	1,1-Dichloroethylene						

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe	Effluent in Manhole #55	Effluent in 42" from A-I-I
EFFLUENT STREAM TYPE:		OTOW	Combined	Combined
TOXICITY TEST REQUIRED:		No	No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		None	Quarterly 80 days	Quarterly 80 days
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None	Semi-annually 180 days	Semi-annually 180 days
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		None	Semi-annually 180 days	Semi-annually 180 days
QUALITY CONTROL MONITORING REQUIRED:		No	No	No
FREQUENCY OF SAMPLING:		M	D	TW
PARAMETERS TO BE ANALYZED				
ANALYTICAL TEST GROUP				
16 Volatiles, Halogenated (continued)	1,2-Dichlorobenzene			
	1,2-Dichloroethane (Ethylene dichloride)			
	1,2-Dichloropropane			
	1,3-Dichlorobenzene			
	1,4-Dichlorobenzene			
	Bromoform			
	Bromomethane			
	Carbon tetrachloride			
	Chlorobenzene			
	Chloroform			
	Chloromethane			
	Cis-1,3-Dichloropropylene			
	Dibromochloromethane			
	Ethylene dibromide			
	Methylene chloride			
	Tetrachloroethylene (Perchloroethylene)			
	Trans-1,2-Dichloroethylene			
	Trans-1,3-Dichloropropylene			
	Trichloroethylene			
	Trichlorofluoromethane			
	Vinyl chloride (Chloroethylene)			

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe	Effluent in Manhole #55	Effluent in 42" from A-II										
EFFLUENT STREAM TYPE:		OTCW	Combined	Combined										
TOXICITY TEST REQUIRED:		No	No	No										
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL: CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	QUALITY CONTROL MONITORING REQUIRED:	None	Quarterly 60 days	Quarterly 60 days										
		None	Semi-annually 180 days	Semi-annually 180 days										
		No	No	No										
		FREQUENCY OF SAMPLING:		M	D	TW	W	M	D	TW	W	M		
PARAMETERS TO BE ANALYZED														
17 Volatiles, Non-Halogenated	Benzene													XXX
	Styrene													XXX
	Toluene													XXX
	o-Xylene													XXX
	m-Xylene and p-Xylene													XXX
19 Extractables, Base Neutral	Acenaphthene													
	5-nitro Acenaphthene													
	Acenaphthylene													
	Anthracene													
	Benz(a)anthracene													
	Benzo(a)pyrene													
	Benzo(b)fluoranthene													
	Benzo(g,h,i)perylene													
	Benzo(k)fluoranthene													
	Biphenyl													
	Camphene													
	1-Chloronaphthalene													
	2-Chloronaphthalene													
	Chrysene													
	Dibenz(a,h)anthracene													
	Fluoranthene													
	Fluorene													
	Indeno(1,2,3-cd)pyrene													



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe		Effluent in Manhole #55		Effluent in 42" from A-II	
EFFLUENT STREAM TYPE:		OTOW		Combined		Combined	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL: CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	None		Quarterly 60 days		Quarterly 60 days	
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	None		Semi-annually 180 days		Semi-annually 180 days	
	QUALITY CONTROL MONITORING REQUIRED:	No		No		No	
FREQUENCY OF SAMPLING:		M		D		D	
PARAMETERS TO BE ANALYZED							
ANALYTICAL TEST GROUP							
19 Extractables, Base Neutral (continued)	Indole						
	1-Methylnaphthalene						
	2-Methylnaphthalene						
	Naphthalene						
	Perylene						
	Phenanthrene						
	Pyrene						
	Benzyl butyl phthalate						
	Bis(2-ethylhexyl) phthalate						
	Di-n-butyl phthalate						
	4-Bromophenyl phenyl ether						
	4-Chlorophenyl phenyl ether						
	Bis(2-chloroisopropyl)ether						
	Bis(2-chloroethyl)ether						
	Diphenyl ether						
	2,4-Dinitrotoluene						
	2,6-Dinitrotoluene						
	Bis(2-chloroethoxy)methane						
	Diphenylamine						
	N-Nitrosodiphenylamine						
	N-Nitrosodi-n-propylamine						
25 Solvent Extractables	Oil and grease	XXX		XXX		XXX	
						XXX	



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent in 18" Black Polyethylene Pipe	Effluent in Manhole #55 Combined		Effluent in 42" from A-II Combined	
EFFLUENT STREAM TYPE:		OTOW	No		No	
TOXICITY TEST REQUIRED:			No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):			Quarterly 60 days		Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:			Semi-annually 180 days		Semi-annually 180 days	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:			No		No	
QUALITY CONTROL MONITORING REQUIRED:			D		D	
FREQUENCY OF SAMPLING:			TW		TW	
PARAMETERS TO BE ANALYZED			M		M	
ANALYTICAL TEST GROUP						
C2+	Fluoride					
C3+	Sulphate	XXX			XXX	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-I Regenerator		Effluent in 72" Line from A-I		Effluent in Open Ditch from Ammonia Storage	
EFFLUENT STREAM TYPE:		Batch		OTCW		OTCW	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually		None		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually		None		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
QUALITY CONTROL MONITORING REQUIRED:		No		M		M	
FREQUENCY OF SAMPLING:		D		TW		W	
PARAMETERS TO BE ANALYZED							
ANALYTICAL TEST GROUP							
3	Hydrogen ion (pH)	XXX				XXX	
4a	Nitrogen					XXX	
	Ammonia plus Ammonium					XXX	
	Total Kjeldahl nitrogen					XXX	
4b	Nitrate + Nitrite					XXX	
5a	Organic carbon					XXX	
	Dissolved organic carbon (DOC)					XXX	
5b	Total organic carbon (TOC) (NOTE 1)					XXX	
6	Total phosphorus					XXX	
	Specific conductance					XXX	
7	Suspended solids (TSS/VSS)					XXX	
	Total suspended solids (TSS)					XXX	
	Volatile suspended solids (VSS)					XXX	
9	Total metals						
	Aluminum					XXX	
	Beryllium					XXX	
	Boron					XXX	
	Cadmium					XXX	
	Chromium					XXX	
	Cobalt					XXX	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBERTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-1 Regenerator		Effluent in 72" Line from A-1		Effluent in Open Ditch from Ammonia Storage	
EFFLUENT STREAM TYPE:		Batch		OTOW		OTOW	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATQ 24):		Semi-annually		None		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATQ 24:		Semi-annually		None		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days					
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
FREQUENCY OF SAMPLING:		D	TW	W	M	M	M
PARAMETERS TO BE ANALYZED							
9 Total metals (continued)	Copper					XXX	
	Lead					XXX	
	Molybdenum					XXX	
	Nickel					XXX	
	Silver					XXX	
	Strontium					XXX	
	Thallium					XXX	
	Vanadium					XXX	
	Zinc					XXX	
10 Hydrides	Antimony					XXX	XXX
	Arsenic					XXX	XXX
	Selenium					XXX	XXX
11 Chromium (Hexavalent) (NOTE 2)	Chromium (Hexavalent)					XXX	
12 Mercury	Mercury						
14 Phenolics (4AAP)	Phenolics (4AAP)					XXX	
16 Volatiles, Halogenated	1,1,2,2-Tetrachloroethane						
	1,1,2-Trichloroethane						
	1,1-Dichloroethane						
	1,1-Dichloroethylene						

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-I Regenerator		Effluent in 72" Line from A-I		Effluent in Open Ditch from Ammonia Storage	
EFFLUENT STREAM TYPE:		Batch		OTCW		OTCW	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually		None		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually		None		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
FREQUENCY OF SAMPLING:		D		TW		M	
PARAMETERS TO BE ANALYZED							
16 Volatiles, Halogenated (continued)	1,2-Dichlorobenzene						
	1,2-Dichloroethane (Ethylene dichloride)						
	1,2-Dichloropropane						
	1,3-Dichlorobenzene						
	1,4-Dichlorobenzene						
	Bromoform						
	Bromomethane						
	Carbon tetrachloride						
	Chlorobenzene						
	Chloroform						
	Chloromethane						
	Cis-1,3-Dichloropropylene						
	Dibromochloromethane						
	Ethylene dibromide						
	Methylene chloride						
	Tetrachloroethylene (Perchloroethylene)						
	Trans-1,2-Dichloroethylene						
	Trans-1,3-Dichloropropylene						
	Trichloroethylene						
	Trichlorofluoromethane						
Vinyl chloride (Chloroethylene)							



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-I Regenerator				Effluent in 72" Line from A-I		Effluent in Open Ditch from Ammonia Storage	
EFFLUENT STREAM TYPE:		Batch				OTCW		OTCW	
TOXICITY TEST REQUIRED:		No				No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually				None		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days							
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually				None		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days							
QUALITY CONTROL MONITORING REQUIRED:		No				No		No	
FREQUENCY OF SAMPLING:		D				TW		M	
PARAMETERS TO BE ANALYZED									
17	Volatiles, Non-Halogenated	Benzene							
		Styrene							
		Toluene							
		o-Xylene							
		m-Xylene and p-Xylene							
19	Extractables, Base Neutral	Acenaphthene							
		5-nitro Acenaphthene							
		Acenaphthylene							
		Anthracene							
		Benz(a)anthracene							
		Benzo(a)pyrene							
		Benzo(b)fluoranthene							
		Benzo(g,h,i)perylene							
		Benzo(k)fluoranthene							
		Biphenyl							
		Camphene							
		1-Chloronaphthalene							
		2-Chloronaphthalene							
		Chrysene							
		Dibenz(a,h)anthracene							
		Fluoranthene							
		Fluorene							
		Indeno(1,2,3-cd)pyrene							

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-1 Regenerator		Effluent in 72" Line from A-1		Effluent in Open Ditch	
EFFLUENT STREAM TYPE:		Batch		OTCW		OTCW	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually 180 days		None		None	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually 180 days		None		None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		No		No		No	
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
FREQUENCY OF SAMPLING:		D		TW		W	
PARAMETERS TO BE ANALYZED							
ANALYTICAL TEST GROUP							
19 Extractables, Base Neutral (continued)	Indole						
	1-Methylnaphthalene						
	2-Methylnaphthalene						
	Naphthalene						
	Perylene						
	Phenanthrene						
	Pyrene						
	Benzyl butyl phthalate						
	Bis(2-ethylhexyl) phthalate						
	Di-n-butyl phthalate						
	4-Bromophenyl phenyl ether						
	4-Chlorophenyl phenyl ether						
	Bis(2-chloroisopropyl)ether						
	Bis(2-chloroethyl)ether						
	Diphenyl ether						
	2,4-Dinitrotoluene						
	2,6-Dinitrotoluene						
	Bis(2-chloroethoxy)methane						
	Diphenylamine						
	N-Nitrosodiphenylamine						
	N-Nitrosodi-n-propylamine						
	Oil and grease			XXX		XXX	
25 Solvent Extractables						XXX	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBERTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Effluent from A-I Regenerator		Effluent in 72" Line from A-I		Effluent in Open Ditch	
EFFLUENT STREAM TYPE:		Batch		OTCW		OTCW	
TOXICITY TEST REQUIRED:		No		No		No	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:  CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days		None		None	
		Semi-annually 180 days		None		None	
		No		No		No	
QUALITY CONTROL MONITORING REQUIRED:		No		No		No	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D	TW	W	M		
	Fluoride						
	Sulphate						

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent	
EFFLUENT STREAM TYPE:		Combined	
TOXICITY TEST REQUIRED:		Yes	
CHARACTERIZATION SAMPLING FREQUENCY (except for ATQ 24):		Semi-annually	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATQ 24:		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days	
QUALITY CONTROL MONITORING REQUIRED:		No	
FREQUENCY OF SAMPLING:		D	M
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED		
		TW	W
3	Hydrogen Ion (pH)	XXX	
4a	Ammonia plus Ammonium		XXX
	Total Kjeldahl nitrogen		XXX
4b	Nitrate + Nitrite		XXX
5a	Dissolved organic carbon (DOC)		XXX
5b	Total organic carbon (TOC) (NOTE 1)		XXX
6	Total phosphorus		XXX
7	Specific conductance	XXX	
8	Total suspended solids (TSS)	XXX	
	Volatile suspended solids (VSS)		
9	Aluminum		
	Beryllium		
	Boron		
	Cadmium		
	Chromium		
	Cobalt		



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent
EFFLUENT STREAM TYPE:		Combined
TOXICITY TEST REQUIRED:		Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days
QUALITY CONTROL MONITORING REQUIRED:		No
FREQUENCY OF SAMPLING:		D TW W M
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	
9 Total metals (continued)	Copper	
	Lead	
	Molybdenum	
	Nickel	
	Silver	
	Strontium	
	Thallium	
	Vanadium	
	Zinc	
10 Hydrides	Antimony	
	Arsenic	
	Selenium	
11 Chromium (Hexavalent) (NOTE 2)	Chromium (Hexavalent)	
12 Mercury	Mercury	
14 Phenolics (4AAP)	Phenolics (4AAP)	
16 Volatiles, Halogenated	1,1,2,2-Tetrachloroethane	
	1,1,2-Trichloroethane	
	1,1-Dichloroethane	
	1,1-Dichloroethylene	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent
EFFLUENT STREAM TYPE:		Combined
TOXICITY TEST REQUIRED:		Yes
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	Semi-annually 180 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	Quarterly 60 days	
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:	Quarterly 60 days	
QUALITY CONTROL MONITORING REQUIRED:	No	
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:	
	PARAMETERS TO BE ANALYZED	D TW W M
18 Volatiles, Halogenated (continued)	1,2-Dichlorobenzene	
	1,2-Dichloroethane (Ethylene dichloride)	
	1,2-Dichloropropane	
	1,3-Dichlorobenzene	
	1,4-Dichlorobenzene	
	Bromoform	
	Bromomethane	
	Carbon tetrachloride	
	Chlorobenzene	
	Chloroform	
	Chloromethane	
	Cis-1,3-Dichloropropylene	
	Dibromochloromethane	
	Ethylene dibromide	
	Methylene chloride	
	Tetrachloroethylene (Perchloroethylene)	
	Trans-1,2-Dichloroethylene	
	Trans-1,3-Dichloropropylene	
	Trichloroethylene	
	Trichlorofluoromethane	
	Vinyl chloride (Chloroethylene)	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent			
EFFLUENT STREAM TYPE:		Combined			
TOXICITY TEST REQUIRED:		Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days			
QUALITY CONTROL MONITORING REQUIRED:		No			
FREQUENCY OF SAMPLING:		D	TW	W	M
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED				
17 Volatiles, Non-Halogenated	Benzene				
	Styrene				
	Toluene				
	o-Xylene				
	m-Xylene and p-Xylene				
19 Extractables, Base Neutral	Acenaphthene				
	5-nitro Acenaphthene				
	Acenaphthylene				
	Anthracene				
	Benz(a)anthracene				
	Benzo(a)pyrene				
	Benzo(b)fluoranthene				
	Benzo(g,h,i)perylene				
	Benzo(k)fluoranthene				
	Biphenyl				
	Camphene				
	1-Chloronaphthalene				
	2-Chloronaphthalene				
	Chrysene				
	Dibenz(a,h)anthracene				
	Fluoranthene				
	Fluorene				
	Indeno(1,2,3-cd)pyrene				

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent			
EFFLUENT STREAM TYPE:		Combined			
TOXICITY TEST REQUIRED:		Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Quarterly			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		60 days			
QUALITY CONTROL MONITORING REQUIRED:		No			
FREQUENCY OF SAMPLING:		D	TW	W	M
PARAMETERS TO BE ANALYZED					
19 Extractables, Base Neutral (continued)	Indole				
	1-Methylnaphthalene				
	2-Methylnaphthalene				
	Naphthalene				
	Perylene				
	Phenanthrene				
	Pyrene				
	Benzyl butyl phthalate				
	Bis(2-ethylhexyl) phthalate				
	Di-n-butyl phthalate				
	4-Bromophenyl phenyl ether				
	4-Chlorophenyl phenyl ether				
	Bis(2-chloroisopropyl)ether				
	Bis(2-chloroethyl)ether				
	Diphenyl ether				
	2,4-Dinitrotoluene				
	2,6-Dinitrotoluene				
	Bis(2-chloroethoxy)methane				
Diphenylamine					
N-Nitrosodiphenylamine					
N-Nitrosodi-n-propylamine					
Oil and grease					XXX
25 Solvent Extractables					



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE H: LAMBTON WORKS (C-I-L INC.)

NAME OF EFFLUENT STREAM:		Plant Final Effluent		
EFFLUENT STREAM TYPE:		Combined		
TOXICITY TEST REQUIRED:		Yes		
CHARACTERIZATION SAMPLING FREQUENCY (except for ATQ 24):		Semi-annually		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days		
CHARACTERIZATION SAMPLING FREQUENCY FOR ATQ 24:		Quarterly		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		
QUALITY CONTROL MONITORING REQUIRED:		No		
FREQUENCY OF SAMPLING:		D	TW	W
PARAMETERS TO BE ANALYZED				M
ANALYTICAL TEST GROUP				
	Fluoride			
	Sulphate			

O. Reg. 418/90, s. 1.

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

2. Schedule J to the Regulation is revoked and the following substituted:

NAME OF EFFLUENT STREAM:		Effluent from Cooling Pond Overflow				Effluent to Hydro Canal			
EFFLUENT STREAM TYPE:		Combined				Combined			
TOXICITY TEST REQUIRED:		Yes				Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually				Semi-annually			
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		180 days				180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually				Semi-annually			
CHARACTERIZATION SAMPLING FREQUENCY MINIMUM INTERVAL:		180 days				180 days			
QUALITY CONTROL MONITORING REQUIRED:		Yes				No			
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED									
ANALYTICAL TEST GROUP									
2	Total cyanide								
			XXX				XXX		
3	Hydrogen ion (pH)								
		XXX				XXX			
4a	Ammonia plus Ammonium				XXX				XXX
	Total Kjeldahl nitrogen				XXX				XXX
4b	Nitrate + Nitrite			XXX					XXX
5a	Dissolved organic carbon (DOC)			XXX				XXX	
5b	Total organic carbon (TOC) (NOTE 1)			XXX				XXX	
6	Total phosphorus			XXX				XXX	
7	Specific conductance		XXX				XXX		
8	Total suspended solids (TSS)		XXX				XXX		
	Volatile suspended solids (VSS)								
9	Total metals								
	Aluminum				XXX				XXX
	Beryllium				XXX				XXX
	Boron				XXX				XXX
	Cadmium				XXX				XXX
	Chromium				XXX				XXX

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM: EFFLUENT STREAM TYPE:		Effluent from Cooling Pond Overflow Combined				Effluent to Hydro Canal Combined			
TOXICITY TEST REQUIRED:		Yes				Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days			
QUALITY CONTROL MONITORING REQUIRED:		Yes				No			
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D	TW	W	M	D	TW	W	M
9 Total metals (continued)	Cobalt				XXX				XXX
	Copper				XXX				XXX
	Lead				XXX				XXX
	Molybdenum				XXX				XXX
	Nickel				XXX				XXX
	Silver				XXX				XXX
	Strontium				XXX				XXX
10 Hydrides	Thallium				XXX				XXX
	Vanadium				XXX				XXX
	Zinc				XXX				XXX
	Antimony				XXX				XXX
	Arsenic				XXX				XXX
	Selenium				XXX				XXX
	Chromium (Hexavalent)				XXX				XXX
11	Chromium (Hexavalent) (NOTE 2)								
12	Mercury			XXX					XXX
14	Phenolics (4AAP)				XXX				XXX
19 Extractables, Base Neutral	Acenaphthene				XXX				XXX
	5-nitro Acenaphthene				XXX				XXX
	Acenaphthylene				XXX				XXX
	Anthracene				XXX				XXX

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM:		Effluent from Cooling Pond Overflow				Effluent to Hydro Canal			
EFFLUENT STREAM TYPE:		Combined				Combined			
TOXICITY TEST REQUIRED:		Yes				Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATQ 24):		Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATQ 24:		Semi-annually 180 days				Semi-annually 180 days			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:									
QUALITY CONTROL MONITORING REQUIRED:		Yes				No			
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D	TW	W	M	D	TW	W	M
19 Extractables, Base Neutral (continued)	Benz(a)anthracene				XXX				XXX
	Benzo(a)pyrene				XXX				XXX
	Benzo(b)fluoranthene				XXX				XXX
	Benzo(g,h,i)perylene				XXX				XXX
	Benzo(k)fluoranthene				XXX				XXX
	Biphenyl				XXX				XXX
	Camphene				XXX				XXX
	1-Chloronaphthalene				XXX				XXX
	2-Chloronaphthalene				XXX				XXX
	Chrysene				XXX				XXX
	Dibenz(a,h)anthracene				XXX				XXX
	Fluoranthene				XXX				XXX
	Fluorene				XXX				XXX
	Indeno(1,2,3-cd)pyrene				XXX				XXX
	Indole				XXX				XXX
	1-Methylnaphthalene				XXX				XXX
	2-Methylnaphthalene				XXX				XXX
	Naphthalene				XXX				XXX
	Perylene				XXX				XXX
	Phenanthrene				XXX				XXX
	Pyrene				XXX				XXX
4-Bromophenyl phenyl ether	Benzyl butyl phthalate								
	Bis(2-ethylhexyl) phthalate								
	Di-n-butyl phthalate								



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM:		Effluent from Cooling Pond Overflow				Effluent to Hydro Canal			
EFFLUENT STREAM TYPE:		Combined				Combined			
TOXICITY TEST REQUIRED:		Yes				Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually				Semi-annually			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days				180 days			
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually				Semi-annually			
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days				180 days			
QUALITY CONTROL MONITORING REQUIRED:		Yes				No			
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED									
19 Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether								
	Bis(2-chloroisopropyl)ether								
	Bis(2-chloroethyl)ether								
	Diphenyl ether								
	2,4-Dinitrotoluene								
	2,6-Dinitrotoluene								
	Bis(2-chloroethoxy)methane								
	Diphenylamine								
	N-Nitrosodiphenylamine								
	N-Nitrosodi-n-propylamine								
25 Solvent Extractables	Oil and grease			XXX					XXX

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM:		Effluent in South Fork Sewer				
EFFLUENT STREAM TYPE:		Combined				
TOXICITY TEST REQUIRED:		Yes				
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		180 days				
QUALITY CONTROL MONITORING REQUIRED:		No				
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:				
		D	TW	W	M	
2	Total cyanide		XXX			
3	Hydrogen ion (pH)	XXX				
4a	Ammonia plus Ammonium					XXX
	Total Kjeldahl nitrogen					XXX
	Nitrate + Nitrite			XXX		
5a	Dissolved organic carbon (DOC)			XXX		
	Total organic carbon (TOC) (NOTE 1)			XXX		
6	Total phosphorus			XXX		
7	Specific conductance	XXX				
8	Total suspended solids (TSS)	XXX				
	Volatile suspended solids (VSS)					
9	Aluminum					XXX
	Beryllium					XXX
	Boron					XXX
	Cadmium					XXX
	Chromium					XXX

NAME OF EFFLUENT STREAM:		Effluent in South Fork Sewer					
EFFLUENT STREAM TYPE:		Combined					
TOXICITY TEST REQUIRED:		Yes					
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually					
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days					
QUALITY CONTROL MONITORING REQUIRED:		No					
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	FREQUENCY OF SAMPLING:					
		D	TW	W	M		
9 Total metals (continued)	Cobalt					XXX	
	Copper					XXX	
	Lead					XXX	
	Molybdenum					XXX	
	Nickel					XXX	
	Silver					XXX	
	Strontium					XXX	
	Thallium					XXX	
	Vanadium					XXX	
	Zinc					XXX	
10 Hydrides	Antimony					XXX	
	Arsenic					XXX	
	Selenium					XXX	
11 Chromium (Hexavalent) (NOTE 2)	Chromium (Hexavalent)					XXX	
12 Mercury	Mercury			XXX			
14 Phenolics (4AAP)	Phenolics (4AAP)					XXX	
19 Extractables, Base Neutral	Acenaphthene					XXX	
	5-nitro Acenaphthene					XXX	
	Acenaphthylene					XXX	
	Anthracene					XXX	

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM:		Effluent in South Fork Sewer				
EFFLUENT STREAM TYPE:		Combined				
TOXICITY TEST REQUIRED:		Yes				
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually				
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		180 days				
QUALITY CONTROL MONITORING REQUIRED:		No				
FREQUENCY OF SAMPLING:		No				
PARAMETERS TO BE ANALYZED		D	TW	W	M	
ANALYTICAL TEST GROUP						
19 Extractables, Base Neutral (continued)	Benz(a)anthracene					XXX
	Benzo(a)pyrene					XXX
	Benzo(b)fluoranthene					XXX
	Benzo(g,h,i)perylene					XXX
	Benzo(k)fluoranthene					XXX
	Biphenyl					XXX
	Camphene					XXX
	1-Chloronaphthalene					XXX
	2-Chloronaphthalene					XXX
	Chrysene					XXX
	Dibenz(a,h)anthracene					XXX
	Fluoranthene					XXX
	Fluorene					XXX
	Indeno(1,2,3-cd)pyrene					XXX
	Indole					XXX
	1-Methylnaphthalene					XXX
	2-Methylnaphthalene					XXX
	Naphthalene					XXX
	Perylene					XXX
	Phenanthrene					XXX
	Pyrene					XXX
	Benzyl butyl phthalate					
	Bis(2-ethylhexyl) phthalate					
	Di-n-butyl phthalate					
	4-Bromophenyl phenyl ether					



EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR

SCHEDULE J: NIAGARA PLANT (CYANAMID CANADA INC.)

NAME OF EFFLUENT STREAM:		Effluent in South Fork Sewer			
EFFLUENT STREAM TYPE:		Combined			
TOXICITY TEST REQUIRED:		Yes			
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):	Semi-annually 180 days			
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	Semi-annually 180 days			
	QUALITY CONTROL MONITORING REQUIRED:	No			
ANALYTICAL TEST GROUP	FREQUENCY OF SAMPLING:		No		
	PARAMETERS TO BE ANALYZED		D	TW	M
19 Extractables, Base Neutral (continued)	4-Chlorophenyl phenyl ether				
	Bis(2-chloroisopropyl)ether				
	Bis(2-chloroethyl)ether				
	Diphenyl ether				
	2,4-Dinitrotoluene				
	2,6-Dinitrotoluene				
	Bis(2-chloroethoxy)methane				
	Diphenylamine				
	N-Nitrosodiphenylamine				
	N-Nitrosodi-n-propylamine				
25 Solvent Extractables	Oil and grease				XXX

O. Reg. 418/90, s. 2.

3. Schedule K to the Regulation, as remade by section 2 of Ontario Regulation 269/90, is revoked and the following substituted:

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE K: NIAGARA FALLS PLANT (WASHINGTON MILLS ELECTRO MINERALS CORPORATION)

NAME OF EFFLUENT STREAM:		Effluent from Queen Lagoon				Effluent from Old Lagoon				21" to Pell Creek	18" to Stanley Ave. Sewer
EFFLUENT STREAM TYPE:		Combined				Combined				Storm	Storm
TOXICITY TEST REQUIRED:		Yes				Yes				No	No
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24):		Semi-annually 180 days				Semi-annually 180 days				None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually 180 days				Semi-annually 180 days				None	None
CHARACTERIZATION SAMPLING FREQUENCY FOR ATG 24:		Semi-annually 180 days				Semi-annually 180 days				None	None
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No	No
FREQUENCY OF SAMPLING:		D TW W M				D TW W M				M	M
PARAMETERS TO BE ANALYZED											
3	Hydrogen ion (pH)	XXX								XXX	XXX
5a	Organic carbon					XXX					
5b	Dissolved organic carbon (DOC)					XXX				XXX	XXX
6	Total organic carbon (TOC) (NOTE 1)					XXX				XXX	XXX
6	Total phosphorus					XXX				XXX	XXX
7	Specific conductance	XXX								XXX	XXX
8	Total suspended solids (TSS)	XXX								XXX	XXX
8	Volatile suspended solids (VSS)										
9	Total metals					XXX				XXX	XXX
	Aluminum					XXX				XXX	XXX
	Beryllium					XXX				XXX	XXX
	Boron					XXX				XXX	XXX
	Cadmium					XXX				XXX	XXX
	Chromium					XXX				XXX	XXX
	Cobalt					XXX				XXX	XXX
	Copper					XXX				XXX	XXX
	Lead					XXX				XXX	XXX
	Molybdenum					XXX				XXX	XXX
	Nickel					XXX				XXX	XXX
	Silver					XXX				XXX	XXX

EFFLUENT MONITORING REGULATION - INORGANIC CHEMICAL SECTOR  
SCHEDULE K: NIAGARA FALLS PLANT (WASHINGTON MILLS ELECTRO MINERALS CORPORATION)

NAME OF EFFLUENT STREAM:		Effluent from Queen Lagoon Combined		Effluent from Old Lagoon Combined		21" to Pell Creek		18" to Stanley Ave. Sewer	
EFFLUENT STREAM TYPE:		Yes		Yes		Storm		Storm	
TOXICITY TEST REQUIRED:									
CHARACTERIZATION SAMPLING FREQUENCY (except for ATG 24): CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days		Semi-annually 180 days		None		None	
		Semi-annually 180 days		Semi-annually 180 days		None		None	
QUALITY CONTROL MONITORING REQUIRED:		Yes		No		No		No	
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D		TW		W		M	
9 Total metals (continued)	Strontium							XXX	XXX
	Thallium							XXX	XXX
	Vanadium							XXX	XXX
	Zinc					XXX		XXX	XXX
11 Chromium (Hexavalent) (NOTE 2)	Chromium (Hexavalent)					XXX		XXX	XXX
14 Phenolics (4AAP)	Phenolics (4AAP)							XXX	
25 Solvent Extractables	Oil and grease					XXX		XXX	XXX

O. Reg. 418/90, s. 3.

**ENVIRONMENTAL PROTECTION ACT****O. Reg. 419/90.**

Effluent Monitoring—Metal Casting Sector.

Made—July 27th, 1990.

Filed—July 30th, 1990.

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**REGULATION TO AMEND  
ONTARIO REGULATION 648/89  
MADE UNDER THE  
ENVIRONMENTAL PROTECTION ACT**

1. The Table to subsection 3 (2) of Ontario Regulation 648/89, as amended by section 1 of Ontario Regulation 232/90, is further amended by striking out items 2 and 5.
2. Section 12 of the Regulation is amended by adding the following subsection:  
  
(18) For the purposes of subsections (1), (3) and (6), where a direct discharger collects a composite sample using an automatic composite sampling device, the discharger may, instead of collecting a duplicate sample, remove an aliquot from each sample container used to collect the sample, in which case the discharger shall analyze the aliquots as if they were duplicate samples. O. Reg. 419/90, s. 2.
3. Schedules B and E to the Regulation are revoked.
4. Schedules G and J to the Regulation, as remade by section 6 of Ontario Regulation 232/90, are revoked and the following substituted:



NAME OF EFFLUENT STREAM:		Foundry Process			Foundry Combined			Foundry Combined		
EFFLUENT STREAM TYPE:		Process			Combined			Emerg. Overflow		
CHARACTERIZATION SAMPLING REQUIRED:		Yes			Yes			No		
CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly			Quarterly			None		
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		80 days			60 days			None		
ATG 24 SAMPLING REQUIRED:		Yes			Yes			No		
ATG 24 SAMPLING FREQUENCY:		Semi-annually			Semi-annually			None		
ATG 24 SAMPLING MINIMUM INTERVAL:		180 days			180 days			None		
OPEN CHARACTERIZATION SAMPLING REQUIRED:		Yes			Yes			No		
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly			Quarterly			None		
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days			60 days			None		
TOXICITY TESTING REQUIRED:		No			Yes			No		
TOXICITY TESTING FREQUENCY:		None			Monthly			None		
TOXICITY TESTING MINIMUM INTERVAL:					15 days					
QUALITY CONTROL MONITORING REQUIRED:		Yes			No			No		
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M	Event Oriented
PARAMETERS TO BE ANALYZED										
1	Chemical Oxygen Demand		X				X			X
2	Total cyanide				X				X	
3	Hydrogen ion (pH)	X				X				X
4a	Nitrogen				X				X	
4b	Nitrogen				X				X	
5a	Organic carbon			X				X		
5b	Organic carbon									X
6	Total phosphorus			X				X		
7	Specific conductance	X				X				

SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM:		Foundry Process		Foundry Combined		Foundry Combined	
EFFLUENT STREAM TYPE:		Process		Combined		Emerg. Overflow	
CHARACTERIZATION SAMPLING FREQUENCY: CHARACTERIZATION SAMPLING MINIMUM INTERVAL: ATG 24 SAMPLING REQUIRED: ATG 24 SAMPLING FREQUENCY: ATG 24 SAMPLING MINIMUM INTERVAL: OPEN CHARACTERIZATION SAMPLING FREQUENCY: OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL: OPEN CHARACTERIZATION SAMPLING FREQUENCY: OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL: TOXICITY TESTING REQUIRED: TOXICITY TESTING FREQUENCY: TOXICITY TESTING MINIMUM INTERVAL: QUALITY CONTROL MONITORING REQUIRED:	CHARACTERIZATION SAMPLING REQUIRED:	Yes		Yes		No	
	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly 60 days		Quarterly 60 days		None	
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	Yes		Yes		No	
	ATG 24 SAMPLING REQUIRED:	Semi-annually 180 days		Semi-annually 180 days		None	
	ATG 24 SAMPLING FREQUENCY:	Yes		Yes		No	
	ATG 24 SAMPLING MINIMUM INTERVAL:	Yes		Yes		None	
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly 60 days		Quarterly 60 days		No	
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	No		Yes		No	
	TOXICITY TESTING REQUIRED:	None		Monthly 15 days		None	
	TOXICITY TESTING FREQUENCY:	Yes		No		No	
	TOXICITY TESTING MINIMUM INTERVAL:	D		TW		M	
	QUALITY CONTROL MONITORING REQUIRED:	D		TW		M	
FREQUENCY OF SAMPLING:		D		TW		M	
PARAMETERS TO BE ANALYZED		D		TW		M	
8	Suspended solids	X		X		X	
	Total suspended solids (TSS)						
9	Volatle suspended solids (VSS)						
	Aluminum	X		X		X	
	Beryllium	X		X		X	
	Cadmium	X		X		X	
	Chromium	X		X		X	
	Cobalt	X		X		X	
	Copper	X		X		X	
	Lead	X		X		X	
	Molybdenum	X		X		X	
	Nickel	X		X		X	
	Silver	X		X		X	
	Thallium	X		X		X	
	Vanadium	X		X		X	
	Zinc	X		X		X	
11	Chromium (Hexavalent) (NOTE 1)	Chromium (Hexavalent)		X		X	

SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM: EFFLUENT STREAM TYPE:		Foundry Process				Foundry Combined				Foundry Combined	
CHARACTERIZATION SAMPLING FREQUENCY:		Process				Combined				Emerg. Overflow	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				Yes				No	
ATG 24 SAMPLING REQUIRED:		Quarterly 60 days				Quarterly 60 days				None	
ATG 24 SAMPLING FREQUENCY:		Yes				Yes				No	
ATG 24 SAMPLING MINIMUM INTERVAL:		Semi-annually 180 days				Semi-annually 180 days				None	
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Yes				Yes				No	
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Quarterly 60 days				Quarterly 60 days				None	
TOXICITY TESTING REQUIRED:		No				Yes				No	
TOXICITY TESTING FREQUENCY:		None				Monthly 15 days				None	
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No	
PARAMETERS TO BE ANALYZED		D	TW	W	M	D	TW	W	M	Event Oriented	
12	Mercury				X				X		
13	Total alkyl lead (NOTE 2)				X				X		
	Tri-alkyl lead				X				X		
14	Phenolics (4AAP)	X				X					X
15	Sulphide				X				X		
16	Volatiles, Halogenated				X				X		
	1,1,2,2-Tetrachloroethane				X				X		
	1,1,2-Trichloroethane				X				X		
	1,1-Dichloroethane				X				X		
	1,1-Dichloroethylene				X				X		
	1,2-Dichlorobenzene				X				X		
	1,2-Dichloroethane (Ethylene dichloride)				X				X		
	1,2-Dichloropropane				X				X		
	1,3-Dichlorobenzene				X				X		
	1,4-Dichlorobenzene				X				X		
	Bromoform				X				X		



SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM:		Foundry Process		Foundry Combined		Foundry Combined		Foundry Combined	
EFFLUENT STREAM TYPE:		Process		Combined		Combined		Combined	
CHARACTERIZATION SAMPLING REQUIRED:		Yes		Yes		Yes		Yes	
CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly		Quarterly		Quarterly		Quarterly	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
ATG 24 SAMPLING REQUIRED:		Yes		Yes		Yes		Yes	
ATG 24 SAMPLING FREQUENCY:		Semi-annually		Semi-annually		Semi-annually		Semi-annually	
ATG 24 SAMPLING MINIMUM INTERVAL:		180 days		180 days		180 days		180 days	
OPEN CHARACTERIZATION SAMPLING REQUIRED:		Yes		Yes		Yes		Yes	
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly		Quarterly		Quarterly		Quarterly	
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		60 days		60 days		60 days	
TOXICITY TESTING REQUIRED:		No		Yes		Yes		Yes	
TOXICITY TESTING FREQUENCY:		None		None		Monthly		Monthly	
TOXICITY TESTING MINIMUM INTERVAL:						15 days		15 days	
QUALITY CONTROL MONITORING REQUIRED:		Yes		No		No		No	
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	M
PARAMETERS TO BE ANALYZED									
18 Volatiles, Halogenated (continued)	Bromomethane				X				X
	Carbon tetrachloride				X				X
	Chlorobenzene				X				X
	Chloroform				X				X
	Chloromethane				X				X
	Cis-1,3-Dichloropropylene				X				X
	Dibromochloromethane				X				X
	Ethylene dibromide				X				X
	Methylene chloride				X				X
	Tetrachloroethylene (Parchloroethylene)				X				X
	Trans-1,2-Dichloroethylene				X				X
	Trans-1,3-Dichloropropylene				X				X
	Trichloroethylene				X				X
	Trichlorofluoromethane				X				X
	Vinyl chloride (Chloroethylene)				X				X



NAME OF EFFLUENT STREAM:		Foundry Process				Foundry Combined				Foundry Combined				
EFFLUENT STREAM TYPE:		Process				Combined				Emerg. Overflow				
CHARACTERIZATION SAMPLING FREQUENCY:		Yes				Yes				No				
CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly 60 days				Quarterly 60 days				None				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Yes				Yes				No				
ATG 24 SAMPLING REQUIRED:		Semi-annually 180 days				Semi-annually 180 days				None				
ATG 24 SAMPLING MINIMUM INTERVAL:		Yes				Yes				No				
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly 60 days				Quarterly 60 days				None				
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		No				Yes				No				
TOXICITY TESTING REQUIRED:		None				Monthly 15 days				None				
TOXICITY TESTING MINIMUM INTERVAL:		Yes				No				No				
QUALITY CONTROL MONITORING REQUIRED:		Frequency of Sampling:				No				Event Oriented				
PARAMETERS TO BE ANALYZED		D	TW	W	M	D	TW	W	M					
ANALYTICAL TEST GROUP		FREQUENCY OF SAMPLING												
		PARAMETERS TO BE ANALYZED												
	17 Volatiles, Non-Halogenated	Benzene												
		Styrene				X							X	
		Toluene				X							X	
o-Xylene					X							X		
	m-Xylene and p-Xylene				X							X		
18 Volatiles, Water Soluble	Acrolein				X							X		
	Acrylonitrile				X							X		
19 Extractables, Base Neutral	Acenaphthene				X							X		
	5-nitro Acenaphthene				X							X		
	Acenaphthylene				X							X		
	Anthracene				X							X		
	Benz(a)anthracene				X							X		
	Benzo(a)pyrene				X							X		
	Benzo(b)fluoranthene				X							X		
	Benzo(g,h,i)perylene				X							X		
	Benzo(k)fluoranthene				X							X		
	Biphenyl (NOTE 3)				X							X		

## SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM:		Foundry Process				Foundry Combined				Foundry Combined			
EFFLUENT STREAM TYPE:		Process				Combined				Emerg. Overflow			
CHARACTERIZATION SAMPLING FREQUENCY:	CHARACTERIZATION SAMPLING REQUIRED:	Yes				Yes				No			
	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly 60 days				Quarterly 60 days				None			
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	Yes				Yes				No			
	ATG 24 SAMPLING REQUIRED:	Semi-annually 180 days				Semi-annually 180 days				None			
OPEN CHARACTERIZATION SAMPLING FREQUENCY:	OPEN CHARACTERIZATION SAMPLING REQUIRED:	Yes				Yes				No			
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly 60 days				Quarterly 60 days				None			
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	No				Yes				No			
	TOXICITY TESTING REQUIRED:	None				Monthly 15 days				None			
QUALITY CONTROL MONITORING REQUIRED:	TOXICITY TESTING FREQUENCY:	Yes				No				No			
	TOXICITY TESTING MINIMUM INTERVAL:	Yes				No				Event Oriented			
	QUALITY CONTROL MONITORING REQUIRED:	D				TW				W			
	FREQUENCY OF SAMPLING:	D				TW				W			
ANALYTICAL TEST GROUP	PARAMETERS TO BE ANALYZED	D				TW				W			
	Camphene												
19 Extraciabiles, Base Neutral (continued)	1-Chloronaphthalene									X			
	2-Chloronaphthalene									X			
	Chrysene									X			
	Dibenz(a,h)anthracene									X			
	Fluoranthene									X			
	Fluorene									X			
	Indeno(1,2,3-cd)pyrene									X			
	Indole									X			
	1-Methylnaphthalene									X			
	2-Methylnaphthalene									X			
	Naphthalene					X				X			
	Perylene									X			
	Phenanthrene					X				X			
	Pyrene									X			
	Benzylbutylphthalate									X			
	Bis(2-Ethylhexyl)phthalate									X			
	Di-n-butylphthalate									X			
	4-Bromophenyl phenyl ether									X			

SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM:		Foundry Process				Foundry Combined				Foundry Combined	
EFFLUENT STREAM TYPE:		Process		Combined		Combined		Emerg.		Overflow	
19	Extractables, Base Neutral (continued)	CHARACTERIZATION SAMPLING REQUIRED:									
		Yes		Yes		Yes		No		No	
		CHARACTERIZATION SAMPLING FREQUENCY:									
		Quarterly		Quarterly		Quarterly		None		None	
		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:									
		60 days		60 days		60 days		None		None	
		ATG 24 SAMPLING REQUIRED:									
		Yes		Yes		Yes		No		No	
		ATG 24 SAMPLING FREQUENCY:									
		Semi-annually		Semi-annually		Semi-annually		None		None	
ATG 24 SAMPLING MINIMUM INTERVAL:											
180 days		180 days		180 days		None		None			
20	Extractables, Acid (Phenolics)	OPEN CHARACTERIZATION SAMPLING REQUIRED:									
		Yes		Yes		Yes		No		No	
		OPEN CHARACTERIZATION SAMPLING FREQUENCY:									
		Quarterly		Quarterly		Quarterly		None		None	
		OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:									
		60 days		60 days		60 days		None		None	
		TOXICITY TESTING REQUIRED:									
		No		No		Yes		No		No	
		TOXICITY TESTING FREQUENCY:									
		None		None		Monthly		None		None	
TOXICITY TESTING MINIMUM INTERVAL:											
15 days		15 days		15 days		None		None			
QUALITY CONTROL MONITORING REQUIRED:											
Yes		Yes		No		No		No			
FREQUENCY OF SAMPLING:											
D		TW		W		M		M			
PARAMETERS TO BE ANALYZED											
4-Chlorophenyl phenyl ether								X			
Bis(2-Chloroisopropyl)ether								X			
Bis(2-Chloroethyl)ether								X			
Diphenyl ether (NOTE 4)								X			
2,4-Dinitrotoluene								X			
2,6-Dinitrotoluene								X			
Bis(2-Chloroethoxy)methane								X			
Diphenylamine								X			
N-Nitrosodiphenylamine								X			
N-Nitrosodi-n-propylamine								X			
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SCHEDULE G: FORD MOTOR COMPANY OF CANADA LTD. - WINDSOR

NAME OF EFFLUENT STREAM:		Foundry Process		Foundry Combined		Foundry Combined	
EFFLUENT STREAM TYPE:		Process		Combined		Emerg. Overflow	
ANALYTICAL TEST GROUP	20	CHARACTERIZATION SAMPLING REQUIRED:		Yes		No	
		CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly		None	
		CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		None	
		ATG 24 SAMPLING REQUIRED:		Yes		No	
		ATG 24 SAMPLING FREQUENCY:		Semi-annually		None	
		ATG 24 SAMPLING MINIMUM INTERVAL:		180 days		None	
		OPEN CHARACTERIZATION SAMPLING REQUIRED:		Yes		No	
		OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly		None	
		OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days		None	
		TOXICITY TESTING REQUIRED:		No		No	
ANALYTICAL TEST GROUP	25	TOXICITY TESTING FREQUENCY:		None		None	
		TOXICITY TESTING MINIMUM INTERVAL:		None		None	
		QUALITY CONTROL MONITORING REQUIRED:		Yes		No	
		FREQUENCY OF SAMPLING:		D TW W M D TW W M		Event Oriented	
		PARAMETERS TO BE ANALYZED					
		2,4-Dinitrophenol		X		X	
		2,4-Dichlorophenol		X		X	
		2,6-Dichlorophenol		X		X	
		4,6-Dinitro-o-cresol		X		X	
		2-Chlorophenol		X		X	
ANALYTICAL TEST GROUP	26	4-Chloro-3-methylphenol		X		X	
		4-Nitrophenol		X		X	
		m-Cresol		X		X	
		o-Cresol		X		X	
		p-Cresol		X		X	
		Pentachlorophenol		X		X	
		Phenol		X		X	
		Oil and grease		X		X	
ANALYTICAL TEST GROUP	27	Polychlorinated Biphenyls (PCBs) (Total)		X		X	



NAME OF EFFLUENT STREAM:		Foundry Process		Foundry Combined		Foundry Combined	
EFFLUENT STREAM TYPE:		Process		Combined		Emerg. Overflow	
CHARACTERIZATION SAMPLING FREQUENCY:		Yes		Yes		No	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		Quarterly 60 days		Quarterly 60 days		None	
ATG 24 SAMPLING REQUIRED:		Yes		Yes		No	
ATG 24 SAMPLING FREQUENCY:		Semi-annually 180 days		Semi-annually 180 days		None	
ATG 24 SAMPLING MINIMUM INTERVAL:		Yes		Yes		No	
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly 60 days		Quarterly 60 days		None	
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		No		Yes		No	
TOXICITY TESTING REQUIRED:		None		Monthly 15 days		None	
TOXICITY TESTING MINIMUM INTERVAL:		Yes		No		No	
QUALITY CONTROL MONITORING REQUIRED:		Frequency of Sampling:		D TW W M D TW W M		Event Oriented	
PARAMETERS TO BE ANALYZED							
MC1 Metals	Iron	X		X		X	
	Magnesium	X		X		X	
MC2 Fluoride	Fluoride	X		X		X	

NOTE 1: Analyze for hexavalent chromium only if the total chromium concentration is greater than 1 milligram per litre.

NOTE 2: Analyze for alkyl leads only if the total lead concentration is greater than 1 milligram per litre.

NOTE 3: Follow the Sampling & Analytical Principles outlined for Analytical Test Group 19 in Schedule 2 and in Part B of Schedule 3 in the General Effluent Monitoring Regulation with an Analytical Detection Limit of 0.6 micrograms per litre.

NOTE 4: Follow the Sampling & Analytical Principles outlined for Analytical Test Group 19 in Schedule 2 and in Part B of Schedule 3 in the General Effluent Monitoring Regulation with an Analytical Detection Limit of 0.4 micrograms per litre.

SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

NAME OF EFFLUENT STREAM:		East Process Sewer				STP Effluent				West Process Sewer	
EFFLUENT STREAM TYPE:		Process				Combined				Storm	
CHARACTERIZATION SAMPLING REQUIRED:		Yes				No				No	
CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly				None				None	
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days									
ATG 24 SAMPLING REQUIRED:		Yes				No				No	
ATG 24 SAMPLING FREQUENCY:		Semi-annually				None				None	
ATG 24 SAMPLING MINIMUM INTERVAL:		180 days									
OPEN CHARACTERIZATION SAMPLING REQUIRED:		Yes				No				No	
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly				None				None	
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		60 days									
TOXICITY TESTING REQUIRED:		Yes				No				No	
TOXICITY TESTING FREQUENCY:		Monthly				None				None	
TOXICITY TESTING MINIMUM INTERVAL:		15 days									
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No	
PARAMETERS TO BE ANALYZED		FREQUENCY OF SAMPLING:									
ANALYTICAL TEST GROUP		D	TW	W	M	D	TW	W	Q		
1	Chemical Oxygen Demand										
	Chemical oxygen demand (COD)		X				X			X	
	Total cyanide				X					X	
3	Hydrogen ion (pH)										
	Hydrogen ion (pH)	X					X				
4a	Nitrogen										
	Ammonia plus Ammonium		X				X			X	
4b	Nitrogen										
	Nitrate + Nitrite			X						X	
5a	Organic carbon										
	Dissolved organic carbon (DOC)			X				X		X	
5b	Organic carbon										
	Total organic carbon (TOC)										
6	Total phosphorus										
	Total phosphorus			X				X		X	
7	Specific conductance		X								

NAME OF EFFLUENT STREAM:		East Process Sewer		STP Effluent		West Process Sewer			
EFFLUENT STREAM TYPE:		Process		Combined		Storm			
CHARACTERIZATION SAMPLING REQUIRED: CHARACTERIZATION SAMPLING FREQUENCY: CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	ATG 24 SAMPLING REQUIRED: ATG 24 SAMPLING FREQUENCY: ATG 24 SAMPLING MINIMUM INTERVAL:	Yes	No	No	No	No	No		
		Quarterly 60 days							
		Yes	No	No	No	No	No		
		Semi-annually 180 days							
OPEN CHARACTERIZATION SAMPLING REQUIRED: OPEN CHARACTERIZATION SAMPLING FREQUENCY: OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	ATG 24 SAMPLING REQUIRED: ATG 24 SAMPLING FREQUENCY: ATG 24 SAMPLING MINIMUM INTERVAL:	Yes	No	No	No	No	No		
		Quarterly 60 days							
		Yes	No	No	No	No	No		
		Monthly 15 days							
TOXICITY TESTING REQUIRED:		None							
TOXICITY TESTING FREQUENCY:		None							
TOXICITY TESTING MINIMUM INTERVAL:		15 days							
QUALITY CONTROL MONITORING REQUIRED:		Yes							
PARAMETERS TO BE ANALYZED		D	TW	W	M	D	TW	W	Q
ANALYTICAL TEST GROUP		F							
8	Suspended solids	X				X			
		Total suspended solids (TSS)						X	
		Volatile suspended solids (VSS)							
9	Total metals	Aluminum		X					
		Beryllium		X					
		Cadmium		X					
		Chromium		X					
		Cobalt		X					
		Copper		X					
		Lead		X					
		Molybdenum		X					
		Nickel		X					
		Silver		X					
		Thallium		X					
		Vanadium		X					
		Zinc		X					
		11	Chromium (Hexavalent) (NOTE 1)			X			



SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

NAME OF EFFLUENT STREAM:		East Process Sewer				STP Effluent				West Process Sewer
EFFLUENT STREAM TYPE:		Process				Combined				Storm
CHARACTERIZATION SAMPLING FREQUENCY:	CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No
	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days								
	ATG 24 SAMPLING REQUIRED:	Yes				No				No
OPEN CHARACTERIZATION SAMPLING FREQUENCY:	ATG 24 SAMPLING FREQUENCY:	Semi-annually				None				None
	ATG 24 SAMPLING MINIMUM INTERVAL:	180 days								
	OPEN CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days								
	TOXICITY TESTING REQUIRED:	Yes				No				No
	TOXICITY TESTING FREQUENCY:	Monthly				None				None
	TOXICITY TESTING MINIMUM INTERVAL:	15 days								
QUALITY CONTROL MONITORING REQUIRED:		Yes				No				No
FREQUENCY OF SAMPLING:		D	TW	W	M	D	TW	W	Q	M
PARAMETERS TO BE ANALYZED										
12	Mercury				X					
13	Total alkyl lead (NOTE 2)				X					X
	Tri-alkyl lead				X					X
14	Phenolics (4AAP)	X								X
15	Sulphide				X					X
16	Volatiles, Halogenated	1,1,2,2-Tetrachloroethane			X				X	
		1,1,2-Trichloroethane			X				X	
		1,1-Dichloroethane			X				X	
		1,1-Dichloroethylene			X				X	
		1,2-Dichlorobenzene			X				X	
		1,2-Dichloroethane (Ethylene dichloride)			X				X	
		1,2-Dichloropropane			X				X	
		1,3-Dichlorobenzene			X				X	
		1,4-Dichlorobenzene			X				X	
	Bromoform			X				X		



ANALYTICAL TEST GROUP	NAME OF EFFLUENT STREAM: EFFLUENT STREAM TYPE:	East Process Sewer				STP Effluent				West Process Sewer	
		Process	Yes	No	Combined	Storm					
16 Volatiles, Halogenated (continued)	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly	60 days	None	None	None					None
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	ATG 24 SAMPLING REQUIRED:	Yes	No	None	None					No
	ATG 24 SAMPLING FREQUENCY:	ATG 24 SAMPLING MINIMUM INTERVAL:	Semi-annually	180 days	None	None					None
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly	60 days	None	None	None					No
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	TOXICITY TESTING REQUIRED:	Yes	No	None	None					No
	TOXICITY TESTING FREQUENCY:	TOXICITY TESTING MINIMUM INTERVAL:	Monthly	15 days	None	None					None
	QUALITY CONTROL MONITORING REQUIRED:	FREQUENCY OF SAMPLING:	Yes	No	None	None					No
	PARAMETERS TO BE ANALYZED	D	TW	W	M	D	TW	W	Q		
	Bromomethane				X				X		
	Carbon tetrachloride				X				X		
	Chlorobenzene				X				X		
	Chloroform				X				X		
	Chloromethane				X				X		
	Cis-1,3-Dichloropropylene				X				X		
	Dibromochloromethane				X				X		
	Ethylene dibromide				X				X		
	Methylene chloride				X				X		
	Tetrachloroethylene (Perchloroethylene)				X				X		
	Trans-1,2-Dichloroethylene				X				X		
	Trans-1,3-Dichloropropylene				X				X		
	Trichloroethylene				X				X		
	Trichlorofluoromethane				X				X		
	Vinyl chloride (Chloroethylene)				X				X		

## SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

NAME OF EFFLUENT STREAM:		East Process Sewer				STP Effluent				West Process Sewer		
EFFLUENT STREAM TYPE:		Process				Combined				Storm		
17	CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No		
	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None		
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days										
	ATG 24 SAMPLING REQUIRED:	Yes				No				No		
	ATG 24 SAMPLING FREQUENCY:	Semi-annually				None				None		
	ATG 24 SAMPLING MINIMUM INTERVAL:	180 days										
	OPEN CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No		
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None		
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days										
	TOXICITY TESTING REQUIRED:	Yes				No				No		
18	TOXICITY TESTING FREQUENCY:	Monthly				None				None		
	TOXICITY TESTING MINIMUM INTERVAL:	15 days										
	QUALITY CONTROL MONITORING REQUIRED:	Yes				No				No		
	FREQUENCY OF SAMPLING:	D	TW	W	M	D	TW	W	Q	M		
19	PARAMETERS TO BE ANALYZED											
	Volatiles, Non-Halogenated				X					X		
					X					X		
					X					X		
					X					X		
					X					X		
	Volatiles, Water Soluble								X			
									X			
	Extractables, Base Neutral	Acenaphthene				X				X		
		5-nitro Acenaphthene				X				X		
Acenaphthylene					X				X			
Anthracene					X				X			
Benz(a)anthracene					X				X			
Benzo(a)pyrene					X				X			
Benzo(b)fluoranthene					X				X			
Benzo(g,h,i)perylene					X				X			
Benzo(k)fluoranthene					X				X			
Biphenyl (NOTE 3)					X				X			

ANALYTICAL TEST GROUP	NAME OF EFFLUENT STREAM: EFFLUENT STREAM TYPE:	East Process Sewer				STP Effluent				West Process Sewer		
		CHARACTERIZATION SAMPLING FREQUENCY REQUIRED:				Combined				Storm		
19 Extractables, Base Neutral (continued)	CHARACTERIZATION SAMPLING FREQUENCY REQUIRED:	Yes				No				No		
	CHARACTERIZATION SAMPLING FREQUENCY REQUIRED:	Quarterly 60 days				None				None		
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	ATG 24 SAMPLING REQUIRED:				No				No		
		ATG 24 SAMPLING FREQUENCY:				None				None		
		ATG 24 SAMPLING MINIMUM INTERVAL:										
	OPEN CHARACTERIZATION SAMPLING FREQUENCY REQUIRED:	Yes				No				No		
	OPEN CHARACTERIZATION SAMPLING FREQUENCY REQUIRED:	Quarterly 60 days				None				None		
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	TOXICITY TESTING REQUIRED:				No				No		
		TOXICITY TESTING FREQUENCY:				None				None		
		TOXICITY TESTING MINIMUM INTERVAL:										
	QUALITY CONTROL MONITORING OF SAMPLING:	Yes				No				No		
		FREQUENCY OF SAMPLING:										
		PARAMETERS TO BE ANALYZED										
		Camphene									X	
		1-Chloronaphthalene									X	
		2-Chloronaphthalene									X	
		Chrysene									X	
		Dibenz(a,h)anthracene									X	
		Fluoranthene									X	
		Fluorene									X	
		Indeno(1,2,3-cd)pyrene									X	
		Indole									X	
		1-Methylnaphthalene									X	
		2-Methylnaphthalene									X	
		Naphthalene									X	
		Perylene									X	
		Phenanthrene									X	
		Pyrene									X	
		Benzylbutylphthalate									X	
		Bis(2-Ethylhexyl)phthalate									X	
		Di-n-butylphthalate									X	
		4-Bromophenyl phenyl ether									X	



SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

ANALYTICAL TEST GROUP	NAME OF EFFLUENT STREAM: EFFLUENT STREAM TYPE:	East Process Sewer							STP Effluent				West Process Sewer	
		Process	Yes	No	Combined	Storm			Process	Yes	No	Storm		
19 Extractables, Base Neutral (continued)	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly	60 days	None	None	None								
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	ATG 24	SAMPLING REQUIRED:	Yes	No	None								
	ATG 24 SAMPLING FREQUENCY:	Semi-annually	180 days	None	None	None								
	ATG 24 SAMPLING MINIMUM INTERVAL:	Yes		No	No	No								
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly	60 days	None	None	None								
	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	Yes		No	No	No								
	TOXICITY TESTING REQUIRED:	Monthly	15 days	None	None	None								
	TOXICITY TESTING FREQUENCY:	Yes		No	No	No								
	TOXICITY TESTING MINIMUM INTERVAL:	Yes		No	No	No								
	QUALITY CONTROL MONITORING REQUIRED:	D	TW	W	M									
20 Extractables, Acid (Phenolics)	FREQUENCY OF SAMPLING:	D	TW	W	M									
	PARAMETERS TO BE ANALYZED													
	4-Chlorophenyl phenyl ether				X						X			
	Bis(2-Chloroisopropyl)ether				X						X			
	Bis(2-Chloroethyl)ether				X						X			
	Diphenyl ether (NOTE 4)				X						X			
	2,4-Dinitrotoluene				X						X			
	2,6-Dinitrotoluene				X						X			
	Bis(2-Chloroethoxy)methane				X						X			
	Diphenylamine				X						X			
20 Extractables, Acid (Phenolics)	N-Nitrosodiphenylamine				X						X			
	N-Nitrosodi-n-propylamine				X						X			
	2,3,4,5-Tetrachlorophenol				X						X			
	2,3,4,6-Tetrachlorophenol				X						X			
	2,3,5,6-Tetrachlorophenol				X						X			
	2,3,4-Trichlorophenol				X						X			
	2,3,5-Trichlorophenol				X						X			
	2,4,5-Trichlorophenol				X						X			
	2,4,6-Trichlorophenol				X						X			
	2,4-Dimethylphenol				X						X			



SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

NAME OF EFFLUENT STREAM:		East Process Sewer				STP Effluent				West Process Sewer				
EFFLUENT STREAM TYPE:		Process				Combined				Storm				
CHARACTERIZATION SAMPLING REQUIRED:		Yes				No				No				
CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly 60 days				None				None				
CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		ATG 24 SAMPLING REQUIRED: Yes				No				No				
ATG 24 SAMPLING FREQUENCY:		Semi-annually 180 days				None				None				
ATG 24 SAMPLING MINIMUM INTERVAL:		OPEN CHARACTERIZATION SAMPLING REQUIRED: Yes				No				No				
OPEN CHARACTERIZATION SAMPLING FREQUENCY:		Quarterly 60 days				None				None				
OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:		TOXICITY TESTING REQUIRED: Yes				No				No				
TOXICITY TESTING FREQUENCY:		Monthly 15 days				None				None				
TOXICITY TESTING MINIMUM INTERVAL:		Yes				No				No				
QUALITY CONTROL MONITORING REQUIRED:		D	TW	W	M	D	TW	W	Q					
FREQUENCY OF SAMPLING:														
PARAMETERS TO BE ANALYZED														
ANALYTICAL TEST GROUP	Extractables, Acid (Phenolics) (continued)	2,4-Dinitrophenol												
		X												
		2,4-Dichlorophenol												
		X												
		2,6-Dichlorophenol												
		X												
		4,6-Dinitro-o-cresol												
		X												
		2-Chlorophenol												
		X												
		4-Chloro-3-methylphenol												
		X												
		4-Nitrophenol												
		X												
		m-Cresol												
		X												
		o-Cresol												
		X												
		p-Cresol												
		X												
		Pentachlorophenol												
		X												
		Phenol												
		X												
Oil and grease		X				X				X				
25		Solvent Extractables												
26		Fatty and Resin Acids												
27		Polychlorinated Biphenyls (PCBs) (Total)											X	

SCHEDULE J: HALEY INDUSTRIES LTD. - HALEY

NAME OF EFFLUENT STREAM:		Last Process Sewer				STP Effluent				West Process Sewer			
EFFLUENT STREAM TYPE:		Process				Combined				Storm			
MC1	CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No			
	CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None			
	CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days											
	ATG 24 SAMPLING REQUIRED:	Yes				No				No			
MC2	ATG 24 SAMPLING FREQUENCY:	Semi-annually				None				None			
	ATG 24 SAMPLING MINIMUM INTERVAL:	180 days											
	OPEN CHARACTERIZATION SAMPLING REQUIRED:	Yes				No				No			
	OPEN CHARACTERIZATION SAMPLING FREQUENCY:	Quarterly				None				None			
MC2	OPEN CHARACTERIZATION SAMPLING MINIMUM INTERVAL:	60 days											
	TOXICITY TESTING REQUIRED:	Yes				No				No			
	TOXICITY TESTING FREQUENCY:	Monthly				None				None			
	TOXICITY TESTING MINIMUM INTERVAL:	15 days											
MC2	QUALITY CONTROL MONITORING REQUIRED:	Yes				No				No			
	FREQUENCY OF SAMPLING:	D	TW	W	M	D	TW	W	Q				
	PARAMETERS TO BE ANALYZED												
	Iron												
MC2	Magnesium		X										X
			X										X
MC2	Fluoride												X
			X										

NOTE 1: Analyze for hexavalent chromium only if the total chromium concentration is greater than 1 milligram per litre.

NOTE 2: Analyze for alkyl leads only if the total lead concentration is greater than 1 milligram per litre.

NOTE 3: Follow the Sampling & Analytical Principles outlined for Analytical Test Group 19 in Schedule 2 and in Part B of Schedule 3 in the General Effluent Monitoring Regulation with an Analytical Detection Limit of 0.6 micrograms per litre.

NOTE 4: Follow the Sampling & Analytical Principles outlined for Analytical Test Group 19 in Schedule 2 and in Part B of Schedule 3 in the General Effluent Monitoring Regulation with an Analytical Detection Limit of 0.4 micrograms per litre.

O. Reg. 419/90, s. 4, part.

COURTS OF JUSTICE ACT, 1984

O. Reg. 420/90.  
Salaries and Benefits of Masters.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
REGULATION 539 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
COURTS OF JUSTICE ACT, 1984

1. Section 1 of Regulation 539 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 336/89, is revoked and the following substituted:
1. For service on and after the 1st day of April, 1990, the annual salary of a master in a position referred to in Column 1 of the Schedule is the salary set out opposite to the position in Column 2. O. Reg. 420/90, s. 1.

2. Schedule 1, as remade by section 2 of Ontario Regulation 336/89, and Schedules 2 and 3, as made by section 2 of Ontario Regulation 336/89, to the Regulation are revoked and the following substituted:

Schedule	
COLUMN 1	COLUMN 2
Senior Master	\$120,980
Master	110,460

O. Reg. 420/90, s. 2, part.

34/90

COURTS OF JUSTICE ACT, 1984

O. Reg. 421/90.  
Salaries and Benefits of Provincial Judges.  
Made—July 27th, 1990.  
Filed—July 30th, 1990.

REGULATION TO AMEND  
REGULATION 811 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
AND ONTARIO REGULATION 287/90  
MADE UNDER THE  
COURTS OF JUSTICE ACT, 1984

1. Section 2 of Regulation 811 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 337/89, is revoked and the following substituted:

2.—(1) For service on and after the 1st day of April, 1990 up to and including the day immediately preceding the day on which section 2 of the *Courts of Justice Amendment Act, 1989* (chapter 55) comes into force, the annual salary of a judge in a position referred to in Column 1 of Schedule 1 is the salary set out opposite to the position in Column 2.

(2) For service on and after the day on which section 2 of the *Courts of Justice Amendment Act, 1989* (chapter 55) comes into force, the annual salary of a judge in a position referred to in Column 1 of Schedule 2 is the salary set out opposite to the position in Column 2. O. Reg. 421/90, s. 1.

2. Schedule 1, as remade by section 2 of Ontario Regulation 337/89, and Schedules 2 and 3, as made by section 2 of Ontario Regulation 337/89, to the Regulation are revoked and the following substituted:

Schedule 1

COLUMN 1	COLUMN 2
Chief Judge of the Provincial Court	\$126,240
Associate Chief Judge of the Provincial Court	120,980
Co-ordinator of Justices of the Peace	120,980
Senior Judge of the Provincial Court	117,824
Provincial Judge	110,460

O. Reg. 421/90, s. 2, part.

Schedule 2

COLUMN 1	COLUMN 2
Chief Judge of the Provincial Division	\$126,240
Regional senior judge of the Provincial Division	120,980
Co-ordinator of Justices of the Peace	120,980
Any other provincial judge	110,460

O. Reg. 421/90, s. 2, part.

3. Section 6 of Ontario Regulation 287/90 is revoked.

34/90



**INSURANCE ACT****O. Reg. 422/90.**

Automobile Insurance.

Made—July 27th, 1990.

Filed—July 31st, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 275/90  
MADE UNDER THE  
INSURANCE ACT**

**1. Ontario Regulation 275/90 is amended by adding the following section:**

**9e.** A person who applies under section 242f of the Act to vary or revoke an order shall pay a fee of \$100 when the application is made. O. Reg. 422/90, s. 1.

34/90

**INSURANCE ACT****O. Reg. 423/90.**

Assessment under Section 6h of the Act.

Made—July 27th, 1990.

Filed—July 31st, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 386/90  
MADE UNDER THE  
INSURANCE ACT**

**1. Section 1 of Ontario Regulation 386/90 is amended by adding the following subsection:**

(3) Each insurer that is a party to an application under section 242f of the Act to vary or revoke an order shall be assessed \$500 in respect of the application. O. Reg. 423/90, s. 1.

34/90

**MUNICIPAL AND SCHOOL BOARD  
PAYMENTS ADJUSTMENT ACT, 1989**

**O. Reg. 424/90.**

General.

Made—July 27th, 1990.

Filed—July 31st, 1990.

**REGULATION MADE UNDER THE  
MUNICIPAL AND SCHOOL BOARD  
PAYMENTS ADJUSTMENT ACT, 1989**

**GENERAL**

**1.** The lands and premises having the assessment roll numbers set out in Schedule 1 are prescribed for the purposes of the definition of "defence property" in section 1 of the Act. O. Reg. 424/90, s. 1.

**2.—(1)** The municipalities set out in Column 1 of Schedule 2 are prescribed for the purposes of the Act.

(2) A municipality set out in Column 1 of Schedule 2 that receives a payment or grant in lieu of taxes in respect of defence property for elementary school purposes shall allocate, for those purposes, the portion set out in Column 2 to the boards that have jurisdiction in the municipality.

(3) A municipality set out in Column 1 of Schedule 2 that receives a payment or grant in lieu of taxes in respect of defence property for secondary school purposes shall allocate, for those purposes, the portion set out in Column 3 to the boards that have jurisdiction in the municipality.

(4) A municipality set out in Column 1 of Schedule 2 that receives a payment or grant in lieu of taxes in respect of defence property for elementary and secondary school purposes shall allocate, for those purposes, the portion set out in Column 4 to the boards that have jurisdiction in the municipality. O. Reg. 424/90, s. 2.

**3.** This Regulation shall be deemed to have come into force on the 1st day of January, 1988.

**Schedule 1****City of Gloucester**

06 06 000 030 002  
06 06 000 030 003  
06 06 000 030 021 00  
06 06 000 030 019 00  
06 06 000 030 010 00  
06 06 000 030 028 00  
06 06 000 030 014 01  
06 06 000 030 014 00  
06 06 000 030 013 01  
06 06 000 030 013 00  
06 06 000 030 015 00  
06 06 000 030 016 00  
06 06 000 030 068 02  
06 06 000 030 042 00  
06 06 000 030 012 00  
06 06 000 030 001 01  
06 06 000 030 017 00  
06 06 000 030 010 01  
06 06 000 030 038 00  
06 06 000 030 039 00  
06 06 000 030 018 00



06 06 000 030 005 00  
 06 06 000 030 008 00  
 06 06 000 030 043 00  
 06 06 000 030 028 01  
 06 06 000 030 010 03  
 06 06 000 030 018 01  
 06 06 000 030 004 00  
 06 06 000 030 007 02  
 06 06 000 030 007 03  
 06 06 000 030 068 01  
 06 06 000 030 007 01  
 06 06 000 030 005 01  
 06 06 000 030 001 10  
 06 06 000 030 069 00 0010  
 06 06 000 030 069 00 0020  
 06 06 000 030 069 00 0030  
 06 06 000 030 069 03  
 06 06 000 030 004 01  
 06 06 000 030 003 00  
 06 06 000 030 010 04  
 06 06 000 030 008 01  
 06 06 000 030 008 02  
 06 06 000 030 028 02  
 06 06 000 030 010 02  
 06 06 000 030 040 00  
 06 06 000 030 006 00  
 06 06 000 035 001 00 to  
 06 06 000 035 032 00  
 06 06 000 040 001 00 to  
 06 06 000 040 038 00  
 06 06 000 045 001 00 to  
 06 06 000 045 006 00  
 06 06 000 045 006 01  
 06 06 000 045 007 00 to  
 06 06 000 045 012 00  
 06 06 000 045 014 00 to  
 06 06 000 045 045 00

## City of Ottawa

06 14 001 040 2 490 01 to  
 06 14 001 040 2 490 05  
 06 14 001 040 2 490 10 to  
 06 14 001 040 2 490 12  
 06 14 001 040 2 491 00  
 06 14 001 040 2 492 00  
 06 14 001 040 2 493 00  
 06 14 001 040 2 494 01  
 06 14 001 040 2 496 00  
 06 14 001 040 2 497 00  
 06 14 001 040 2 497 01  
 06 14 001 040 2 499 00  
 06 14 001 040 2 503 00  
 06 14 001 040 2 504 00  
 06 14 001 040 2 505 00  
 06 14 001 040 2 506 00  
 06 14 001 040 2 507 01  
 06 14 001 040 2 508 00  
 06 14 001 040 2 510 00  
 06 14 001 040 2 512 00  
 06 14 001 040 2 514 00 to

06 14 001 040 2 516 00  
 06 14 001 040 2 518 00 to  
 06 14 001 040 2 521 00  
 06 14 001 040 2 526 01  
 06 14 001 040 2 526 02  
 06 14 001 040 2 530 00 to  
 06 14 001 040 2 538 00  
 06 14 001 040 2 545 00  
 06 14 001 040 2 549 00  
 06 14 001 040 2 550 00  
 06 14 001 040 2 552 00 to  
 06 14 001 040 2 558 00  
 06 14 001 040 2 561 00  
 06 14 001 040 2 563 00  
 06 14 001 040 2 566 00 to  
 06 14 001 040 2 576 00  
 06 14 001 040 2 578 00 to  
 06 14 001 040 2 580 00  
 06 14 001 040 2 580 01  
 06 14 001 040 2 581 00  
 06 14 001 040 2 583 00  
 06 14 001 040 2 585 00 to  
 06 14 001 040 2 596 00  
 06 14 001 040 2 596 01 0010  
 06 14 001 040 2 596 01 0020  
 06 14 001 040 2 598 00  
 06 14 001 040 2 700 00  
 06 14 011 640 1 900-00

## Township of Pittsburgh

10 06 001 090 011-00  
 10 06 001 090 271-00  
 10 06 001 090 272-00  
 10 06 001 090 273-00  
 10 06 001 090 275-00

## Township of Sidney

12 11 000 085 750-00  
 12 11 000 085 751-00  
 12 11 000 085 752-00

## City of North York

19 08 031 580 001-00

## City of London

39 36 003 150 134-00  
 39 36 003 430 486-00  
 39 36 003 250 213-00

## City of North Bay

48 44 050 075 524-00  
 48 44 050 076 500-00  
 48 44 050 076 520-00

O. Reg. 424/90, Sched. 1.

Schedule 2

Allocation of payments or grants to boards

Item	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
	Municipality	Elementary Purposes %	Secondary Purposes %	Elementary and Secondary Purposes %
1.	City of Gloucester	—	—	100.00
2.	City of London	—	—	100.00
3.	City of North Bay	—	97.98	—
4.	City of North York	—	—	41.55
5.	City of Ottawa	—	100.00	—
6.	Township of Pittsburgh	100.00	72.60	—
7.	Township of Sidney	—	100.00	—

O. Reg. 424/90, Sched. 2.

34/90

HIGHWAY TRAFFIC ACT

O. Reg. 425/90.  
Stopping of Vehicles on Parts of the King's Highway.  
Made—July 29th, 1990.  
Filed—July 31st, 1990.

REGULATION MADE UNDER THE  
HIGHWAY TRAFFIC ACT

STOPPING OF VEHICLES ON PARTS OF THE  
KING'S HIGHWAY

- 1.—(1) No person shall stop a vehicle on a part of the King's Highway described in a Schedule to Appendix A.
- (2) No person shall stop a vehicle on a part of the King's Highway described in Column 1 of a Schedule to Appendix B between the limits set out in Column 2 during the period set out in Column 3 for a longer period of time than that set out in Column 4. O. Reg. 425/90, s. 1.

2. Where a highway is referred to in a Schedule by number or name, the reference is to that part of the King's Highway known by it. O. Reg. 425/90, s. 2.

3. Regulation 492 of Revised Regulations of Ontario, 1980 and Ontario Regulations 201/81, 707/81, 804/81, 520/83, 790/84, 460/87, 544/87, 208/88 and 676/89 are revoked.

APPENDIX A

Schedule 1

HIGHWAY NO. 58

1. That part of the King's Highway known as No. 58 in the Town of Thorold in The Regional Municipality of Niagara beginning at a point situate 150 metres measured northerly from its intersection with the roadway known as Regional Road No. 553 and extending southerly along it for a distance of 457 metres. O. Reg. 425/90, App. A, Sched. 1.

Schedule 2

1. On the west side of that part of the King's Highway known as No. 11 in the Village of Sundridge in the Territorial District of Parry Sound beginning at a point situate 91 metres measured southerly from its intersection with the southerly limit of the roadway known as Albert Street and extending northerly along it for a distance of 188 metres.
2. On the east side of that part of the King's Highway known as No. 11 in the Village of Sundridge in the Territorial District of Parry Sound lying between a point situate 85 metres measured northerly from its intersection with the centre line of the roadway known as John Street and a point situate 200 metres measured northerly from its intersection with the centre line of the roadway known as Paget Street.
3. On the west side of that part of the King's Highway known as No. 11 in the Village of Sundridge in

the Territorial District of Parry Sound lying between a point situate 100 metres measured southerly from its intersection with the centre line of the roadway known as John Street and a point situate 230 metres measured northerly from its intersection with the centre line of the roadway known as Paget Street.

4. On the east side of that part of the King's Highway known as No. 11 in the Village of Sundridge in the Territorial District of Parry Sound lying between a point situate at its intersection with the northerly limit of the roadway known as Albert Street and a point situate at its intersection with the southerly limit of the roadway known as Mill Street. O. Reg. 425/90, App. A, Sched. 2.

Schedule 3

HIGHWAY NO. 511

1. On the east side of that part of the King's Highway known as No. 511 in the Village of Lanark in the County of Lanark beginning at a point situate at its intersection with the roadway known as Hillier Street and extending northerly along it for a distance of 100 metres. O. Reg. 425/90, App. A, Sched. 3.

Schedule 4

AURORA ROAD (YORK ROAD 15)

1. That part of the King's Highway known as Aurora Road (York Road 15) in the Town of Whitchurch-Stouffville in The Regional Municipality of York lying between a point situate at its intersection with the freeway off-ramp known as Highway 404 northbound and a point situate 360 metres measured easterly from the easterly limit of its intersection and the freeway off-ramp known as Highway 404 northbound. O. Reg. 425/90, App. A, Sched. 4.

APPENDIX B

Schedule 1

HIGHWAY NO. 8

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
Highway	Limits	Period	Maximum Period
1. Highway No. 8 in the City of Stoney Creek in The Regional Municipality of Hamilton-Wentworth	Between a point situate at its intersection with the roadway known as Green Road and extending easterly for a distance of 230 metres	From 8 a.m. to 4 p.m. Monday to Friday inclusive	No stopping at any time

Schedule 5

HIGHWAY NO. 16

1. That part of the King's Highway known as No. 16 in the City of Nepean in The Regional Municipality of Ottawa-Carleton lying between a point situate at its intersection with the southerly limit of the roadway known as MacFarlane Road and a point situate at its intersection with the northerly limit of the roadway known as Amberwood Crescent. O. Reg. 425/90, App. A, Sched. 5.

Schedule 6

HIGHWAY NO. 2

1. That part of the King's Highway known as No. 2 in the Township of Sidney in the County of Hastings lying between a point situate at its intersection with the easterly limit of the roadway known as Hastings County Road 21 and a point situate at its intersection with the westerly limit of the roadway known as Quinte View Road. O. Reg. 425/90, App. A, Sched. 6.

Schedule 7

DAVIS DRIVE (YORK ROAD 31)

1. That part of the King's Highway known as Davis Drive (York Road 31) in the towns of Newmarket and Whitchurch-Stouffville in The Regional Municipality of York beginning at a point situate 472 metres measured westerly from its intersection with the centre line of the bridge over the King's Highway known as No. 404 and extending easterly for a distance of 1,438 metres. O. Reg. 425/90, App. A, Sched. 7.

O. Reg. 425/90, App. B, Sched. 1.

WILLIAM WRYE  
Minister of Transportation

Dated at Toronto, this 29th day of July, 1990.



**HIGHWAY TRAFFIC ACT****O. Reg. 426/90.**

Speed Limits.

Made—July 29th, 1990.

Filed—July 31st, 1990.

**REGULATION TO AMEND  
REGULATION 490 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
HIGHWAY TRAFFIC ACT**

1. Paragraph 11 of Part 5 of Schedule 5 to Regulation 490 of Revised Regulations of Ontario, 1980, as remade by section 3 of Ontario Regulation 374/84, is revoked and the following substituted:

Wellington— 11. That part of the King's Highway known as No. 6 in the Township of Puslinch in the County of Wellington lying between a point situate 550 metres measured southerly from its intersection with the northerly limit of the roadway known as Wellington County Road No. 36 and a point situate 350 metres measured northerly from that intersection.

Twp. of  
Puslinch

2. Paragraph 6 of Part 5 of Schedule 38 to the Regulation, as made by section 4 of Ontario Regulation 278/90, is revoked and the following substituted:

Hastings— 6. That part of the King's Highway known as No. 28 in the Township of Mayo in the County of Hastings lying between a point situate 300 metres measured easterly from its intersection with the bridge structure known as the Little Mississippi River Bridge in the hamlet of McArthur Mills and a point situate 800 metres measured westerly from that intersection.

Twp. of  
Mayo

3. Part 5 of Schedule 233 to the Regulation, as made by section 2 of Ontario Regulation 109/81, is amended by adding the following paragraph:

District of  
Rainy River— 2. That part of the King's Highway known as No. 621 in the Township of Morson in the Territorial District of Rainy River lying between a point situate 80 metres measured southerly from its intersection with the roadway known as Wally's Road (also known locally as Roger's Road) and a point

Twp. of  
Morson

situate 25 metres measured northerly from its intersection with the Government Dock access point (end of highway).

WILLIAM WRYE  
*Minister of Transportation*

Dated at Toronto, this 29th day of July, 1990.

34/90

**HIGHWAY TRAFFIC ACT****O. Reg. 427/90.**

Parking.

Made—July 29th, 1990.

Filed—July 31st, 1990.

**REGULATION TO AMEND  
REGULATION 477 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
HIGHWAY TRAFFIC ACT**

1. Schedule 5 of Appendix A to Regulation 477 of Revised Regulations of Ontario, 1980, as amended by section 1 of Ontario Regulation 455/81, section 2 of Ontario Regulation 661/81, section 2 of Ontario Regulation 14/82 and section 1 of Ontario Regulation 189/83, is further amended by adding the following paragraph:

6. That part of the King's Highway known as No. 6 in the Township of Albemarle in the County of Bruce beginning at a point situate 300 metres measured southerly from its intersection with the centre line of the roadway known as Albemarle Sideroad 25 and extending southerly for a distance of 500 metres.

2. Schedule 9 of Appendix A to the Regulation, as amended by section 2 of Ontario Regulation 189/83, is further amended by adding the following paragraph:

7. The east side of that part of the King's Highway known as No. 10 and 24 in the Town of Caledon in The Regional Municipality of Peel beginning at a point situate at its intersection with the northerly limit of the roadway known as Peel Regional Road 11 and extending northerly for a distance of 440 metres.

3. Schedule 16 of Appendix A to the Regulation, as amended by section 2 of Ontario Regulation 631/86 and section 1 of Ontario Regulation 505/88, is further



amended by adding the following paragraph:

6. The east side of that part of the King's Highway known as No. 10 and 24 in the Town of Caledon in The Regional Municipality of Peel beginning at a point situate at its intersection with the northerly limit of the roadway known as Peel Regional Road 11 and extending northerly for a distance of 440 metres.

WILLIAM WRYE

Minister of Transportation

Dated at Toronto, this 29th day of July, 1990.

34/90

CHARITABLE INSTITUTIONS ACT

O. Reg. 428/90.  
General.  
Made—July 27th, 1990.  
Filed—July 31st, 1990.

REGULATION TO AMEND  
REGULATION 95 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
CHARITABLE INSTITUTIONS ACT

1. Item 59 of Table 1 of Regulation 95 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 256/90, is revoked and the following substituted:

59.	From and including the 1st day of May, 1990 up to and including the 31st day of July, 1990 ....	23.73	66.24	40.47	100.00	41.49
60.	From and including the 1st day of August, 1990 .....	24.08	66.24	40.82	100.00	41.49

34/90

FAMILY BENEFITS ACT

O. Reg. 429/90.  
General.  
Made—July 27th, 1990.  
Filed—July 31st, 1990.

REGULATION TO AMEND  
REGULATION 318 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
FAMILY BENEFITS ACT

1. Subclause 12 (5) (e) (i) of Regulation 318 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 213/90, is revoked and the following substituted:

(i) \$24.08 a day, or

2. This Regulation comes into force on the 1st day of August, 1990.

34/90

**GENERAL WELFARE ASSISTANCE ACT****O. Reg. 430/90.**

General.

Made—July 27th, 1990.

Filed—July 31st, 1990.

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**REGULATION TO AMEND  
REGULATION 441 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
GENERAL WELFARE ASSISTANCE ACT**

1. Item 39 of Schedule E to Regulation 441 of Revised Regulations of Ontario, 1980, as made by section 1 of Ontario Regulation 257/90, is revoked and the following substituted:

39.	From and including the 1st day of May, 1990 up to and including the 31st day of July, 1990	\$23.73	67.13	100.00	58.33
40.	From and including the 1st day of August, 1990	\$24.08	67.13	100.00	58.33

34/90

**HOMES FOR THE AGED AND REST HOMES ACT****O. Reg. 431/90.**

General.

Made—July 27th, 1990.

Filed—July 31st, 1990.

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**REGULATION TO AMEND  
REGULATION 502 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
HOMES FOR THE AGED AND REST HOMES ACT**

1. Item 58 of Table 1 of Regulation 502 of Revised Regulations of Ontario, 1980, as made by section 1 of Ontario Regulation 258/90, is revoked and the following substituted:

58.	From and including the 1st day of May, 1990 up to and including the 31st day of July, 1990...	23.73	56.71	40.47	100.00
59.	From and including the 1st day of August, 1990	24.08	56.71	40.82	100.00

34/90

# MUNICIPAL FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT, 1989

O. Reg. 432/90.

Institutions.

Made—July 27th, 1990.

Filed—July 31st, 1990.

## REGULATION MADE UNDER THE MUNICIPAL FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT, 1989

### Institutions

1. The following bodies are designated as institutions:

1. Board of Management of the Guild.
2. Joint committees of management established under the *Community Recreation Centres Act*, all such committees.
3. Metropolitan Licensing Commission.
4. The Board of Governors of Exhibition Place.
5. The Board of Management of the O'Keefe Centre.
6. The Hamilton Entertainment and Convention Facilities Inc. O. Reg. 432/90, s. 1.

34/90

## OCCUPATIONAL HEALTH AND SAFETY ACT

O. Reg. 433/90.

Industrial Establishments.

Made—July 11th, 1990.

Filed—August 1st, 1990.

## REGULATION TO AMEND REGULATION 692 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT

1. Section 1 of Regulation 692 of Revised Regulations of Ontario, 1980 is amended by adding the following clauses:

(ba) "Building Code" means Ontario Regulation 419/86 made under the *Building Code Act*;

(ma) "service room" means, in relation to a building, a room that accommodates building services and includes a boiler room, furnace room, incinerator room, garbage room, elevator machine room and a room that accommodates air conditioning or heating appliances, pumps, compressors or electrical services;

2.—(1) Clause 7 (1) (a) of the Regulation is amended by renumbering subclause (i) as (ia) and by adding the following subclause:

(i) a building of unknown occupancy,

(2) Clauses 7 (1) (c) and (d) of the Regulation are revoked.

(3) Subclause 7 (2) (b) (viii) of the Regulation is revoked and the following substituted:

(viii) details of equipment, machinery or devices to be used in the processing of designated substances or flammable or toxic substances;

(4) Clause 7 (2) (e) of the Regulation is revoked and the following substituted:

(e) be signed and sealed by a professional engineer or architect if the drawings are of,

(i) an arena,

(ii) a building or structure that is more than three storeys in height, or

(iii) a building or structure that is more than 600 square metres in gross area within the meaning of the Building Code; and

3.—(1) Clauses 8 (1) (a) and (b) of the Regulation are revoked and the following substituted:

(a) not more than \$10,000, \$10; and

(b) more than \$10,000, \$2 for each \$1,000 or fraction thereof.

(2) Subsection 8 (2) of the Regulation is revoked and the following substituted:

(2) No fee greater than \$20,000 is payable for any one building or structure. O. Reg. 433/90, s. 3 (2).

**4. Section 11 of the Regulation is revoked.**

**5. Section 15 of the Regulation is revoked and the following substituted:**

**15.—(1) A guardrail shall,**

- (a) have a top rail located not less than 91 and not more than 107 centimetres above the surface to be guarded;
- (b) have a mid rail;
- (c) if tools or other objects may fall on a worker, have a toe-board that extends from the surface to be guarded to a height of at least 125 millimetres; and
- (d) be free of splinters and protruding nails.

(2) A guardrail shall be constructed to meet the structural requirements for guards as set out in the Building Code. O. Reg. 433/90, s. 5.

**6. Clause 16 (b) of the Regulation is revoked and the following substituted:**

- (b) constructed to meet the structural requirements for loads due to the use of floors and roofs as set out in the Building Code.

**7. Section 22 of the Regulation is revoked.**

**8. Sections 24 and 25 of the Regulation are revoked.**

**9. Sections 121 to 127 of the Regulation are revoked and the following substituted:**

**121.** Except as prescribed in this Part, the Building Code applies to all industrial establishments with respect to,

- (a) access to an exit;
- (b) exit from a floor area;
- (c) structural adequacy;
- (d) washrooms;
- (e) service rooms;

(f) the fire resistance rating of a separation for an access to an exit, service room and a process room that contains a flammable substance;

(g) the fire protection rating of a closure. O. Reg. 433/90, s. 9, *part*.

**122.** In this Part, "hazardous room" means, with respect to an industrial establishment, a room containing a substance which, because of its chemical nature, the form in which the substance exists or its handling or processing, may explode or become easily ignited creating a condition of imminent hazard to a person's health or safety. O. Reg. 433/90, s. 9, *part*.

**123.—(1)** This section applies with respect to a hazardous room,

- (a) with an area greater than fifteen square metres; or
- (b) requiring a distance of travel greater than 4.5 metres from any point in the room to an egress doorway.

(2) A hazardous room shall be located in a floor area that has at least two exits.

(3) A hazardous room shall have at least two egress doorways that are at least three-quarters of the length of the diagonal distance of the room from each other.

(4) One egress doorway must be located within a maximum distance of twenty-three metres from any point in a hazardous room. O. Reg. 433/90, s. 9, *part*.

**124.—(1)** The requirements of the Fire Code respecting fire extinguishers apply at industrial establishments.

(2) The requirements of the Fire Code respecting keeping egress doorways, public corridors and exits free from obstruction apply at industrial establishments.

(3) In this section, "Fire Code" means Ontario Regulation 67/87 made under the *Fire Marshals Act*. O. Reg. 433/90, s. 9, *part*.

**10. Section 136 of the Regulation is revoked.**

34/90



**GAME AND FISH ACT****O. Reg. 434/90.**

Open Seasons—Moose and Deer.

Made—July 27th, 1990.

Filed—August 1st, 1990.

**REGULATION TO AMEND  
REGULATION 428 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
GAME AND FISH ACT**

- 1. Schedule 1 to Regulation 428 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 53/89, is revoked and the following substituted:**

**Schedule 1**

ITEM	COLUMN 1	COLUMN 2	COLUMN 3
	Wildlife Management Units	Open Seasons Residents	Open Seasons Non-Residents
1.	1A, 1C, 1D, 16A, 16B, 16C, 17, 18B, 25	September 15 to December 15	September 17 to November 15
2.	2, 3, 4, 5, 6, 8, 9A, 12A, 15A, 15B, 18A, 19, 21A, 21B	October 6 to December 15	October 8 to November 15
3.	7B, 9B, 11A, 11B, 12B, 13, 14	October 6 to December 15	
4.	22, 23, 24, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42	October 6 to November 15	October 8 to November 15
5.	26	September 22 to October 31	September 24 to October 31
6.	45	October 8 to October 10	
7.	46, 47, 48, 49, 50, 53, 54, 55A, 55B, 56, 57, 58, 59, 60A, 61, 62, 63	October 15 to October 20	

O. Reg. 434/90, s. 1.

- 2. Schedule 2 to the Regulation, as remade by section 2 of Ontario Regulation 53/89, is revoked and the following substituted:**

**Schedule 2**

ITEM	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
	Wildlife Management Units	Open Seasons Residents	Open Seasons Non-Residents	Conditions
1.	7A	October 6 to December 15	October 8 to November 15	Only bows and arrows or flint-lock or percussion cap muzzle-loading guns may be used.

ITEM	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
	Wildlife Management Units	Open Seasons Residents	Open Seasons Non-Residents	Conditions
2.	2, 3, 4, 5, 6, 8, 9A, 12A, 15A, 15B, 18A, 19, 21A, 21B, 23, 29, 38	September 15 to October 5	September 15 to October 5	Only bows and arrows may be used.
3.	7B, 9B, 12B, 13, 14	September 15 to October 5		Only bows and arrows may be used.

O. Reg. 434/90, s. 2.

34/90

GAME AND FISH ACT

O. Reg. 435/90.  
Fishing Licences.  
Made—July 27th, 1990.  
Filed—August 1st, 1990.

REGULATION TO AMEND  
ONTARIO REGULATION 526/86  
MADE UNDER THE  
GAME AND FISH ACT

1. Ontario Regulation 526/86 is amended by adding the following section:

11a.—(1) A Non-Resident/Canadian Resident Angling Licence issued in Form 13 to a person who is not a Canadian resident is not valid for angling in Lake St. Joseph, located at latitude 51° 05' north and longitude 90° 35' west, unless a tag in Form 27 is attached to the reverse side of the licence.

(2) There is no fee for a tag in Form 27. O. Reg. 435/90, s. 1.

2. The Regulation is further amended by adding the following Form:

Ministry of Natural Resources  
Ministère des Richesses naturelles

Serial No.  
N° de série

Form 27 – Formule 27

Game and Fish Act

Loi sur la chasse et la pêche

Lake St. Joseph Angling Validation Tag

Vignette de validation pour la pêche à la ligne dans le lac St. Joseph

19....

Valid for 7 consecutive days from

Valide pendant 7 jours consécutifs du

year année	month mois	day jour	to au	year année	month mois	day jour

O. Reg. 435/90, s. 2.

34/90

**MILK ACT****O. Reg. 436/90.**

Industrial Milk—Marketing.

Made—July 31st, 1990.

Filed—August 1st, 1990.

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**REGULATION TO AMEND  
REGULATION 623 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
MILK ACT****1.—(1) Subsection 13 (1) of Regulation 623 of  
Revised Regulations of Ontario, 1980, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(1) All Class 3 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.98 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (1).

**(2) Subsection 13 (2) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(2) All Class 4 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.64 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (2).

**(3) Subsection 13 (3) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(3) All Class 4a milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$44.47 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (3).

**(4) Subsection 13 (4) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(4) All Class 4b milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$44.47 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (4).

**(5) Subsection 13 (4a) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(4a) All Class 4c milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.64 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (5).

**(6) Subsection 13 (5) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(5) All Class 5 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$42.33 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (6).

**(7) Subsection 13 (7) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(7) All Class 6 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$42.33 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 436/90, s. 1 (7).

**(8) Subsection 13 (8) of the Regulation, as  
remade by section 1 of Ontario Regula-  
tion 465/89, is revoked and the following  
substituted:**

(8) The minimum prices that apply under subsections (1), (2), (3), (4), (4a), (5), (6) and (7) shall be increased or decreased at the rate of \$0.6720 for each 0.10 kilograms of milk-fat above or below 3.6 kilograms of milk-fat in each hectolitre of milk. O. Reg. 436/90, s. 1 (8).

**2. Paragraph 1 of subsection 20 (1) of the  
Regulation, as remade by section 2 of  
Ontario Regulation 465/89, is revoked  
and the following substituted:**

1. A payment on account at the rate of \$27.52 per hectolitre, not later than the 14th day of the next following month or, where a holiday falls within the first twelve days of that month, not later than the 15th day of that month.

**3.—(1) This Regulation, except subsections  
1 (3) and (4), comes into force on the 1st  
day of August, 1990.**



- (2) Subsections 1 (3) and (4) come into force on the 15th day of August, 1990.

THE ONTARIO MILK MARKETING  
BOARD:

JOHN CORE  
*Chairman*

HARRY PARKER  
*Secretary*

Dated at Mississauga, this 31st day of July, 1990.

34/90

## MILK ACT

**O. Reg. 437/90.**

Marketing of Milk to Fluid Milk Processors.

Made—July 31st, 1990.

Filed—August 1st, 1990.

### REGULATION TO AMEND ONTARIO REGULATION 541/81 MADE UNDER THE MILK ACT

- 1.—(1) Subsection 15 (4) of Ontario Regulation 541/81, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(4) All Class 3 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.98 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (1).

- (2) Subsection 15 (5) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(5) All Class 4 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.64 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (2).

- (3) Subsection 15 (6) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(6) All Class 4a milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$44.47 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (3).

- (4) Subsection 15 (7) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(7) All Class 4b milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$44.47 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (4).

- (5) Subsection 15 (8) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(8) All Class 4c milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$46.64 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (5).

- (6) Subsection 15 (9) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(9) All Class 5 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$42.33 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (6).

- (7) Subsection 15 (11) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(11) All Class 6 milk supplied to a processor shall be sold by the marketing board and bought by the processor for not less than a minimum price of \$42.33 per hectolitre for milk containing 3.6 kilograms of milk-fat per hectolitre. O. Reg. 437/90, s. 1 (7).

- (8) Subsection 15 (12) of the Regulation, as remade by section 1 of Ontario Regulation 464/89, is revoked and the following substituted:

(12) The minimum prices that apply under subsections (1) to (11) shall be increased or decreased at the rate of \$0.6720 for each 0.10 kilograms of milk-fat above or below 3.6 kilograms of milk-fat in each hectolitre of milk. O. Reg. 437/90, s. 1 (8).

2. Paragraph 1 of subsection 20 (1) of the Regulation, as remade by section 2 of Ontario Regulation 464/89, is revoked and the following substituted:

1. A payment on account at the rate of \$34.76 per hectolitre, not later than the 14th day of



the next following month or, where a holiday falls within the first twelve days of that month, not later than the 15th day of that month.

- 3.—(1) This Regulation, except subsections 1 (3) and (4), comes into force on the 1st day of August, 1990.
- (2) Subsections 1 (3) and (4) come into force on the 15th day of August, 1990.

THE ONTARIO MILK MARKETING  
BOARD:

JOHN CORE  
*Chairman*

HARRY PARKER  
*Secretary*

Dated at Mississauga, this 31st day of July, 1990.

34/90

PROVINCIAL OFFENCES ACT

O. Reg. 438/90.  
Proceedings Commenced by Certificate of Offence.  
Made—July 27th, 1990.  
Filed—August 1st, 1990.

REGULATION TO AMEND  
REGULATION 817 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
PROVINCIAL OFFENCES ACT

1. Items 18, 19, 20 and 21 of Schedule 79 to Regulation 817 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 250/88, are revoked.

34/90

PROVINCIAL OFFENCES ACT

O. Reg. 439/90.  
Proceedings Commenced by Certificate of Offence.  
Made—July 27th, 1990.  
Filed—August 1st, 1990.

REGULATION TO AMEND  
REGULATION 817 OF REVISED REGULATIONS OF ONTARIO, 1980  
MADE UNDER THE  
PROVINCIAL OFFENCES ACT

1. The Table to section 7 of Regulation 817 of Revised Regulations of Ontario, 1980, as made by section 1 of Ontario Regulation 366/89, is amended by adding the following items:

7a. 623/89	Ganaraska Region Conservation Authority
	. . . . .
17a. 115/88	Lower Trent Region Conservation Authority
	. . . . .
19a. 593/88	Metropolitan Toronto Region Conservation Authority
	. . . . .
30a. 545/89	Saugeen Valley Conservation Authority

34/90

**ADMINISTRATION OF JUSTICE ACT****O. Reg. 440/90.**Fees Payable to Provincial Court (Civil  
Division) Referees.

Made—July 27th, 1990.

Filed—August 1st, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 612/85  
MADE UNDER THE  
ADMINISTRATION OF JUSTICE ACT**

1. Section 1 of Ontario Regulation 612/85, as amended by section 1 of Ontario Regulation 692/87 and section 1 of Ontario Regulation 709/88, is further amended by striking out “\$15.75” in the second line and substituting “\$16.75”.

34/90

**COURTS OF JUSTICE ACT, 1984****O. Reg. 441/90.**

Rules of Civil Procedure.

Made—June 20th, 1990.

Approved—July 27th, 1990.

Filed—August 1st, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 560/84  
MADE UNDER THE  
COURTS OF JUSTICE ACT, 1984**

1. This Regulation amends the Rules of Civil Procedure, as set out in the Schedule to Ontario Regulation 560/84, as most recently amended by Ontario Regulation 328/90.
2. Paragraph 2 of subrule 1.02(1) is revoked and the following substituted:
  2. They apply to proceedings under the *Estates Act* only in respect of matters for which Regulation 925 of Revised Regulations of Ontario, 1980 makes no provision.
3. Subrule 7.08(4) is revoked.
4. Rule 7.08 is amended by adding the following subrule:

***Notice of Official Guardian or Public Trustee***

(6) On a motion or application for the approval of a judge under this rule, the judge may direct that the material referred to in subrule (5) be served on the Official Guardian or on the Public Trustee as the committee of the estate or litigation guardian of the party under disability and may direct the Official Guardian or the Public Trustee, as the case may be, to make an oral or written report stating any objections he or she has to the proposed settlement and making recommendations, with reasons, in connection with the proposed settlement.

O. Reg. 441/90, s. 4.

5. The English version of subrule 16.03(6) is amended by inserting after “head office” in the first line “registered office”.
6. Rule 16.09 is amended by adding the following subrule:

***Proof of Service on Document***

(5) The affidavit or certificate of service may be printed on the backsheet or on a stamp or sticker affixed to the backsheet of the document served. O. Reg. 441/90, s. 6.

**7. Subrule 31.06(4) is revoked and the following substituted:*****Insurance Policies***

(4) A party may on an examination for discovery obtain disclosure of,

(a) the existence and contents of any insurance policy under which an insurer may be liable to satisfy all or part of a judgment in the action or to indemnify or reimburse a party for money paid in satisfaction of all or part of the judgment; and

(b) the amount of money available under the policy, and any conditions affecting its availability.

(4a) No information concerning the insurance policy is admissible in evidence unless it is relevant to an issue in the action. O. Reg. 441/90, s. 7.

**8. Clause 33.04(2)(b) is amended by adding at the end “other than a document made in preparation for contemplated or pending litigation and for no other purpose, and in respect of which the party to be examined undertakes not to call evidence at the hearing”.****9. Rule 34.18 is amended by adding the following subrule:**

(2a) The party may file a copy of a portion of the transcript if the other parties consent. O. Reg. 441/90, s. 9.

**10. Rule 50 is amended by adding the following rule:****PRE-TRIAL CONFERENCE BY CONFERENCE TELEPHONE**

**50.08** Where all counsel and parties not represented by counsel participating in the pre-trial conference and the judge or other officer of the court conducting it consent, the pre-trial conference may be conducted by means of a conference telephone call. O. Reg. 441/90, s. 10.

**11. Rule 60.08 is revoked and the following substituted:****GARNISHMENT*****Where Available***

**60.08** (1) A creditor under an order for the payment or recovery of money may enforce it by garnishment of debts payable to the debtor by other persons.

***Where Leave Required***

(2) If six years or more have elapsed since the date of the order, or if its enforcement is subject to a condition, a notice of garnishment shall not be issued unless leave of the court is first obtained.

(3) An order granting leave to issue a notice of garnishment ceases to have effect if the notice is not issued within one year after the date of the order granting leave, but the court may grant leave again on a subsequent motion.

***Obtaining Notice of Garnishment***

(4) A creditor under an order for the payment or recovery of money who seeks to enforce it by garnishment shall file with the registrar where the proceeding was commenced a requisition for garnishment (Form 60FA) together with a copy of the order as entered, any other evidence necessary to establish the amount awarded and the creditor's entitlement, and an affidavit stating,

(a) the date and amount of any payment received since the order was made;

(b) the amount owing, including postjudgment interest;

(c) details of how the amount owing and the postjudgment interest are calculated;

- (d) the name and address of each person to whom a notice of garnishment is to be directed;
- (e) that the creditor believes that those persons are or will become indebted to the debtor and the grounds for the belief;
- (f) such particulars of the debts as are known to the creditor;
- (g) where a person to whom a notice of garnishment is to be directed is not in Ontario, that the debtor is entitled to sue that person in Ontario to recover the debt, and the basis of entitlement to sue in Ontario; and
- (h) where a person to whom a notice of garnishment is to be directed is not then indebted but will become indebted to the debtor, such particulars of the date on and the circumstances under which the debt will arise as are known to the creditor.

(5) The affidavit required by subrule (4) may contain statements of the deponent's information and belief, if the source of the information and the fact of the belief are specified in the affidavit.

(6) On the filing of the requisition and affidavit required by subrule (4), the registrar shall issue notices of garnishment (Form 60G) naming as garnishees the persons named in the affidavit and shall send a copy of each notice of garnishment to the sheriff of the county in which the debtor resides or, if the debtor resides outside Ontario, to the sheriff of the county in which the proceeding was commenced.

#### *Service of Notice of Garnishment*

(7) The creditor shall serve the notice of garnishment,

- (a) on the debtor, together with a copy of the affidavit required by subrule (4); and
- (b) on the garnishee, with a blank garnishee's statement (Form 60H) attached.

(8) The notice of garnishment shall be served by ordinary mail, or by personal service or an alternative to personal service under rule 16.03.

(9) A notice of garnishment may be served outside Ontario if the debtor would be entitled to sue the garnishee in Ontario to recover the debt.

(10) Where the garnishee is a bank, loan or trust corporation, credit union, caisse populaire or the Province of Ontario Savings Office, the garnishee shall be served at the branch at which the debt is payable.

#### *Garnishee Liable from Time of Service*

(11) The garnishee is liable to pay to the sheriff any debt of the garnishee to the debtor, up to the amount shown in the notice of garnishment or supplementary notice of garnishment, less \$10 for the cost of making each payment, within ten days after service on the garnishee or ten days after the debt becomes payable, whichever is later.

(12) For the purposes of subrule (11), a debt of the garnishee to the debtor includes a debt payable at the time the notice of garnishment is served and a debt,

- (a) payable within six years after the notice is served; or
- (b) payable on the fulfilment of a condition within six years after the notice is served.

(13) For the purposes of subrule (11), a debt of the garnishee to the debtor does not include,

- (a) if the garnishee is a bank, loan or trust corporation, credit union, caisse populaire or the Province of Ontario Savings Office, money in an account opened after the notice of garnishment is served;
- (b) if the garnishee is an employer, a debt arising out of employment that commences after the notice is served; or
- (c) if the garnishee is an insurer, a debt payable under an insurance policy that is entered into after the notice is served.



***Payment by Garnishee to Sheriff***

(14) A garnishee who admits owing a debt to the debtor shall pay it to the sheriff in the manner prescribed by the notice of garnishment, subject to section 7 of the *Wages Act*.

***Garnishee Must Serve Statement to Dispute Garnishment***

(15) A garnishee who wishes for any reason to dispute the garnishment or who pays to the sheriff less than the amount set out in the notice of garnishment as owing by the garnishee to the debtor shall, within ten days after service of the notice of garnishment, serve on the creditor and the debtor and file with the court a garnishee's statement (Form 60H) setting out the particulars.

***Garnishment Hearing***

(16) On motion by a creditor, debtor, garnishee or any other interested person, the court may,

- (a) where it is alleged that the debt of the garnishee to the debtor has been assigned or encumbered, order the assignee or encumbrancer to appear and state the nature and particulars of his or her claim;
- (b) determine the rights and liabilities of the garnishee, the debtor and any assignee or encumbrancer;
- (c) vary or suspend periodic payments under a notice of garnishment; or
- (d) determine any other matter in relation to a notice of garnishment,

and the court may proceed in a summary manner, but where the motion is made to a master and raises a genuine issue of fact or of law, it shall be adjourned to be heard by a judge.

***Enforcement against Garnishee***

(17) Where the garnishee does not pay to the sheriff the amount set out in the notice of garnishment as owing by the garnishee to the debtor and does not serve and file a garnishee's statement, the creditor is entitled on motion to the court, on notice to the garnishee, to an order against the garnishee for payment of the amount that the court finds is payable to the debtor by the garnishee, or the amount set out in the notice, whichever is less.

***Payment by Garnishee to Person other than Sheriff***

(18) Where, after service of a notice of garnishment, the garnishee pays a debt attached by the notice to a person other than the sheriff, the garnishee remains liable to pay the debt in accordance with the notice.

***Payment to Sheriff Discharges Garnishee***

(19) Payment of a debt by a garnishee in accordance with a notice of garnishment is a valid discharge of the debt, as between the garnishee and the debtor, to the extent of the payment, including the amount deducted for the cost of making payment under subrule (11).

***Creditor to Give Notice when Order Satisfied***

(20) When the amount owing under an order that is enforced by garnishment has been paid, the creditor shall forthwith serve a notice of termination of garnishment (Form 60I) on the garnishee and on the sheriff.  
O. Reg. 441/90, s. 11.

- 12. Subclause 61.03(2)(a)(iv) is amended by adding at the end "with a further typed or printed copy if the reasons are handwritten".
- 13. Clause 61.09(1)(d) is amended by adding at the end "with a further typed or printed copy if the reasons are handwritten".
- 14. Clause 62.01(7)(c) is amended by adding at the end "as well as a further typed or printed copy of the reasons if they are handwritten".

- 15. Clause 62.02(5a)(b) is amended by adding at the end “as well as a further typed or printed copy of the reasons if they are handwritten”.
- 16. Clause 71.09(4)(c) is amended by adding at the end “as well as a further typed or printed copy of the reasons if they are handwritten”.
- 17. Clause 72.02(5)(c) is amended by adding at the end “as well as a further typed or printed copy of the reasons if they are handwritten”.
- 18. Form 16B is amended by striking out “(General heading)” in the second line and substituting “(If a separate document insert general heading)”.
- 19. Form 16C is amended by striking out “(General heading)” in the second line and substituting “(If a separate document insert general heading)”.
- 20. The following Form is added:

Form 60FA

REQUISITION FOR GARNISHMENT

(General heading)

REQUISITION FOR GARNISHMENT

TO: the local registrar at (place)

I REQUIRE a notice of garnishment to be issued in this proceeding, in accordance with the attached draft Form 60G. The total amount to be shown in the notice of garnishment is \$....., made up as follows:

\$..... for principal owing under the judgment or order, including prejudgment interest.

\$....., in accordance with the regulations under the *Administration of Justice Act* and Tariff A, for issuing, renewing and filing with the sheriff a writ of execution or notice of garnishment.

\$....., for disbursements paid to a sheriff, registrar, official examiner, court reporter or other public officer and to which the creditor is entitled under subrule 60.19(1). (*Attach copies of all receipts.*)

\$....., for the minimum amount prescribed in Tariff A for conducting an examination in aid of execution. (*Attach affidavit confirming that examination was conducted.*)

\$....., for any other costs to which the creditor is entitled under subrule 60.19(1). (*Attach certificate of assessment.*)

\$....., for postjudgment interest to today’s date. (*Calculate by counting the number of days that the principal sum has been owing, multiplying that number by the annual rate of interest, then multiplying by the principal sum owing and dividing by 365.*)

Date ..... Signature .....  
(Name, address and telephone no. of creditor or creditor’s solicitor)

- 21. Form 60G is amended by inserting after “exceed \$.....” in the third line after clause (b) on the first page “less \$10 for your costs of making each payment”, and by inserting after “TOTAL AMOUNT OF \$ ..... ” in the sixth line after clause (b) on the first page “LESS \$10 FOR YOUR COSTS OF MAKING EACH PAYMENT”.

22. Form 60H is amended by striking out "*each notice of garnishment*" in the second and third lines and substituting "*the notice of garnishment to be served on the garnishee*".
- 23.—(1) This Regulation, except section 2, comes into force on the 1st day of September, 1990.
- (2) Section 2 comes into force on the day section 2 of the *Courts of Justice Amendment Act, 1989*, being chapter 55, comes into force.

## LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

Règl. de l'Ont. 441/90  
Règles de procédure civile  
pris—le 20 juin 1990  
approuvé—le 27 juillet 1990  
déposé—le 1<sup>er</sup> août 1990

### RÈGLEMENT PORTANT MODIFICATION DU RÈGLEMENT DE L'ONTARIO 560/84 PRIS EN APPLICATION DE LA LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

- 1 Le présent règlement modifie les Règles de procédure civile, telles qu'elles sont énoncées à l'annexe du Règlement de l'Ontario 560/84 et telles qu'elles ont été modifiées le plus récemment par le Règlement de l'Ontario 328/90.
- 2 La disposition 2 du paragraphe 1.02(1) est abrogée et remplacée par ce qui suit :
  2. Elles ne s'appliquent aux instances intentées en vertu de la *Loi sur les successions* qu'à l'égard des questions dont ne traite pas le Règlement 925 des Règlements refondus de l'Ontario de 1980.
- 3 Le paragraphe 7.08(4) est abrogé.
- 4 La règle 7.08 est modifiée par adjonction du paragraphe qui suit :

#### *Avis au Tuteur public ou au Curateur public*

(6) Sur une motion ou une requête visant l'obtention de l'approbation d'un juge aux termes de la présente règle, le juge peut ordonner que les documents mentionnés au paragraphe (5) soient signifiés au Tuteur public ou au Curateur public à titre de curateur aux biens ou de tuteur à l'instance de la partie incapable. Il peut ordonner au Tuteur public ou au Curateur public, selon le cas, de présenter un rapport sous forme orale ou écrite qui énonce ses objections, le cas échéant, relativement à la transaction proposée, et qui donne des recommandations motivées relativement à la transaction proposée. Règl. de l'Ont. 441/90, art. 4.

- 5 La version anglaise du paragraphe 16.03(6) est modifiée par adjonction, après les mots «*head office*» à la première ligne, des mots «*registered office*».
- 6 La règle 16.09 est modifiée par adjonction du paragraphe qui suit :

#### *Preuve de la signification sur le document*

(5) L'affidavit ou le certificat de signification peut être imprimé sur la feuille arrière du document signifié, ou sur une estampille ou une vignette apposée sur la feuille arrière. Règl. de l'Ont. 441/90, art. 6.

- 7 Le paragraphe 31.06(4) est abrogé et remplacé par ce qui suit :



*Polices d'assurance*

(4) Une partie qui interroge au préalable peut obtenir la divulgation :

- a) de l'existence et de la teneur d'une police d'assurance en vertu de laquelle un assureur peut être tenu, soit de payer, en tout ou en partie, un jugement rendu dans l'action, soit d'indemniser ou de rembourser une partie des sommes qu'elle a payées à la suite de l'exécution, en tout ou en partie, du jugement;
- b) le montant disponible en vertu de la police, ainsi que les conditions éventuelles portant sur sa disponibilité.

(4a) Un renseignement concernant la police d'assurance n'est admissible en preuve que s'il est pertinent à une question en litige dans l'action. Règl. de l'Ont. 441/90, art. 7.

**8 L'alinéa 33.04(2)b) est modifié par adjonction des mots «à l'exception des documents dressés uniquement en prévision d'une poursuite envisagée ou en instance, la partie devant être examinée s'engageant à ne pas présenter de preuve à l'audience relativement à ces documents».**

**9 La règle 34.18 est modifiée par adjonction du paragraphe qui suit :**

(2a) La partie peut déposer une copie d'une partie de la transcription si les autres parties y donnent leur consentement. Règl. de l'Ont. 441/90, art. 9.

**10 La règle 50 est modifiée par adjonction de la règle qui suit :**

**CONFÉRENCE TÉLÉPHONIQUE**

**50.08** Si tous les procureurs et les parties agissant en leur propre nom qui participent à la conférence préparatoire au procès ainsi que le juge ou l'autre officier de justice qui la préside y consentent, la conférence préparatoire au procès peut se faire par conférence téléphonique. Règl. de l'Ont. 441/90, art. 10.

**11 La règle 60.08 est abrogée et remplacée par ce qui suit :**

**SAISIE-ARRÊT***Obtention*

**60.08** (1) Le créancier qui a obtenu une ordonnance de paiement ou de recouvrement d'une somme d'argent peut l'exécuter au moyen d'une saisie-arrêt des créances du débiteur contre des tiers.

*Autorisation du tribunal*

(2) Si six ans ou plus se sont écoulés depuis la date de l'ordonnance ou si son exécution forcée est subordonnée à une condition, l'avis de saisie-arrêt n'est délivré qu'avec l'autorisation préalable du tribunal.

(3) L'ordonnance autorisant la délivrance de l'avis de saisie-arrêt cesse d'avoir effet si cet avis n'est pas délivré dans l'année qui suit la date de l'ordonnance. Le tribunal peut toutefois, sur une motion subéquente, accorder une nouvelle autorisation.

*Obtention d'un avis de saisie-arrêt*

(4) Le créancier qui a obtenu une ordonnance de paiement ou de recouvrement d'une somme d'argent qu'il cherche à exécuter au moyen d'une saisie-arrêt dépose auprès du greffier, au lieu où l'instance a été introduite, une réquisition en ce sens (formule 60FA), accompagnée d'une copie de l'ordonnance qui a été inscrite, des preuves qui sont nécessaires pour établir le montant adjugé et le droit du créancier, et d'un affidavit énonçant :

- a) la date et le montant des paiements reçus depuis que l'ordonnance a été rendue;
- b) le montant qui reste dû, y compris les intérêts postérieurs au jugement;



- c) des renseignements sur la façon de calculer le montant qui reste dû et les intérêts postérieurs au jugement;
- d) le nom et l'adresse de chacune des personnes auxquelles l'avis de saisie-arrêt doit être adressé;
- e) le fait que le créancier croit que ces personnes sont ou seront redevables d'une dette au débiteur, ainsi que ses raisons de le croire;
- f) des précisions sur les créances que le créancier connaît;
- g) si un tiers à qui un avis de saisie-arrêt doit être adressé ne se trouve pas en Ontario, le fait que le débiteur a le droit de le poursuivre en Ontario pour recouvrer sa créance, ainsi que le fondement de son droit de le poursuivre en Ontario;
- h) si un tiers à qui un avis de saisie-arrêt doit être adressé n'est pas encore redevable d'une dette au débiteur mais doit le devenir, les précisions que connaît le créancier sur la date à laquelle la créance doit naître et les circonstances dans lesquelles elle doit naître.

(5) L'affidavit visé au paragraphe (4) peut faire état des éléments que le déposant tient pour véridiques sur la foi de renseignements, pourvu que la source de ces renseignements et le fait qu'ils sont tenus pour véridiques soient indiqués.

(6) Après le dépôt de la réquisition et de l'affidavit visés au paragraphe (4), le greffier délivre des avis de saisie-arrêt (formule 60G) qui désignent à titre de tiers saisis les tiers dont les noms figurent à l'affidavit. Il envoie une copie de chaque avis au shérif du comté où réside le débiteur ou, si le débiteur réside à l'extérieur de l'Ontario, au shérif du comté où l'instance a été introduite.

#### *Signification de l'avis de saisie-arrêt*

(7) Le créancier signifie l'avis de saisie-arrêt :

- a) d'une part, au débiteur, avec une copie de l'affidavit visé au paragraphe (4);
- b) d'autre part, au tiers saisi, en y joignant une déclaration du tiers saisi (formule 60H) en blanc.

(8) L'avis de saisie-arrêt est signifié par courrier ordinaire, ou par voie de signification à personne ou par un autre mode de signification directe prévu à la règle 16.03.

(9) L'avis de saisie-arrêt peut être signifié en dehors de l'Ontario si le débiteur avait le droit de poursuivre le tiers saisi en Ontario en vue de recouvrer sa créance.

(10) Si le tiers saisi est une banque, une compagnie de prêt ou de fiducie, une *credit union*, une caisse populaire ou la Caisse d'épargne de l'Ontario, la signification au tiers saisi se fait à la succursale où la créance est exigible.

#### *Obligations du tiers saisi à compter de la signification*

(11) Le tiers saisi est tenu de payer au shérif la dette dont il est redevable au débiteur, jusqu'à concurrence du montant indiqué dans l'avis de saisie-arrêt ou dans l'avis supplémentaire de saisie-arrêt, moins 10 \$ pour les frais du tiers saisi relativement à chaque paiement, dans les dix jours qui suivent la date à laquelle il a reçu signification de l'avis ou dans les dix jours qui suivent la date à laquelle la créance devient exigible, selon la dernière de ces dates.

(12) Pour l'application du paragraphe (11), constituent une dette dont le tiers saisi est redevable au débiteur, la dette échue au moment de la signification de l'avis de saisie-arrêt et celle à échoir :

- a) soit dans les six ans suivant la signification de l'avis;
- b) soit à la réalisation d'une condition dans les six ans suivant la signification de l'avis.

(13) Pour l'application du paragraphe (11), sont exclus de la dette dont le tiers saisi est redevable au débiteur :

- a) si le tiers saisi est une banque, une compagnie de prêt ou de fiducie, une *credit union*, une caisse populaire ou la Caisse d'épargne de l'Ontario, les sommes dans un compte qui a été ouvert après la signification de l'avis de saisie-arrêt;
- b) si le tiers saisi est un employeur, la dette naissant d'un emploi qui commence après la signification de l'avis;
- c) si le tiers saisi est un assureur, la dette payable en vertu d'une police d'assurance souscrite après la signification de l'avis.

#### ***Païement au shérif***

(14) Le tiers saisi qui reconnaît être redevable d'une dette au débiteur la paie au shérif de la façon prévue dans l'avis de saisie-arrêt, sous réserve de l'article 7 de la *Loi sur les salaires*.

#### ***Déclaration du tiers saisi***

(15) Le tiers saisi qui entend contester la saisie-arrêt ou qui verse au shérif un montant inférieur à celui que l'avis de saisie-arrêt indique comme étant le montant dû par le tiers saisi au débiteur, signifie au créancier et au débiteur, dans les dix jours suivant la signification de l'avis de saisie-arrêt, et dépose auprès du tribunal, une déclaration du tiers saisi (formule 60H) donnant les précisions nécessaires.

#### ***Audience sur la saisie-arrêt***

(16) Sur une motion présentée par un créancier, un débiteur, un tiers saisi ou un autre intéressé, le tribunal peut :

- a) s'il est allégué que la dette du tiers saisi envers le débiteur a été cédée ou grevée d'une sûreté, ordonner au cessionnaire ou au titulaire de la sûreté de comparaître pour exposer la nature et les précisions de sa demande;
- b) déterminer les droits et les responsabilités du tiers saisi, du débiteur et du cessionnaire ou du titulaire de la sûreté;
- c) modifier ou suspendre les versements effectués en exécution de l'avis de saisie-arrêt;
- d) décider les autres questions relatives à l'avis de saisie-arrêt.

Le tribunal peut rendre un jugement sommaire. La motion présentée à un protonotaire qui soulève une véritable question de fait ou de droit est déférée à un juge.

#### ***Exécution forcée contre le tiers saisi***

(17) Si le tiers saisi ne verse pas au shérif le montant que l'avis de saisie-arrêt indique comme étant le montant dû par le tiers saisi au débiteur et qu'il ne signifie ni ne dépose de déclaration du tiers saisi, le créancier a droit, à la suite d'une motion présentée au tribunal et sur préavis au tiers saisi, à une ordonnance enjoignant au tiers saisi de payer le montant que le tribunal estime qu'il doit au débiteur ou celui qui est indiqué dans l'avis, selon le moins élevé de ces deux montants.

#### ***Païement par le tiers saisi à une autre personne que le shérif***

(18) Le tiers saisi qui paie la dette visée par l'avis à une autre personne que le shérif après avoir reçu signification de l'avis de saisie-arrêt, demeure redevable de la dette conformément à l'avis.

#### ***Païement libératoire au shérif***

(19) Le paiement d'une dette par le tiers saisi conformément à l'avis de saisie-arrêt le libère de sa dette envers le débiteur jusqu'à concurrence du paiement, y compris le montant qui est déduit en vertu du paragraphe (11) afin de couvrir les frais de paiement.

#### ***Avis requis du créancier***

(20) Lorsque le montant dû aux termes d'une ordonnance exécutée au moyen d'une saisie-arrêt a été payé, le créancier signifie sans délai au tiers saisi et au shérif un avis de mainlevée de la saisie-arrêt (formule 60I). Règl. de l'Ont. 441/90, art. 11.

- 12 Le sous-alinéa 61.03(2)a(iv) est modifié par adjonction des mots «et, si les motifs se présentent sous forme manuscrite, une copie supplémentaire tapée ou imprimée».
- 13 L'alinéa 61.09(1)d est modifié par adjonction des mots «et, si les motifs se présentent sous forme manuscrite, une copie supplémentaire tapée ou imprimée».
- 14 L'alinéa 62.01(7)c est modifié par adjonction des mots «ainsi qu'une copie supplémentaire tapée ou imprimée des motifs, si ces derniers se présentent sous forme manuscrite».
- 15 L'alinéa 62.02(5a)b est modifié par adjonction des mots «ainsi qu'une copie supplémentaire tapée ou imprimée des motifs, si ces derniers se présentent sous forme manuscrite».
- 16 L'alinéa 71.09(4)c est modifié par adjonction des mots «ainsi qu'une copie supplémentaire tapée ou imprimée des motifs, si ces derniers se présentent sous forme manuscrite».
- 17 L'alinéa 72.02(5)c est modifié par adjonction des mots «ainsi qu'une copie supplémentaire tapée ou imprimée des motifs, si ces derniers se présentent sous forme manuscrite».
- 18 La formule 16B est modifiée par substitution, au mot «(titre)» à la deuxième ligne, des mots «(insérer le titre s'il s'agit d'un document indépendant)».
- 19 La formule 16C est modifiée par substitution, au mot «(titre)» à la deuxième ligne, des mots «(insérer le titre s'il s'agit d'un document indépendant)».
- 20 La formule suivante est ajoutée :

## Formule 60FA

## RÉQUISITION DE SAISIE-ARRÊT

(titre)

## RÉQUISITION DE SAISIE-ARRÊT

AU : greffier local à/au (lieu)

JE REQUIERS qu'un avis de saisie-arrêt soit délivré dans la présente instance, conformément au projet de formule 60G joint à la présente réquisition. Le montant total qui doit figurer à l'avis de saisie-arrêt est de

..... \$. Ce montant se répartit comme suit :

..... \$ pour le principal qui reste dû aux termes du jugement ou de l'ordonnance, y compris les intérêts antérieurs au jugement.

..... \$, conformément aux règlements pris en application de la *Loi sur l'administration de la justice* et au tarif A, relativement à la délivrance, au renouvellement et au dépôt auprès du shérif d'un bref d'exécution forcée ou d'un avis de saisie-arrêt.

..... \$ pour les débours versés à un shérif, un greffier, un auditeur officiel, un sténographe judiciaire ou un autre fonctionnaire et auxquels le créancier a droit en vertu du paragraphe 60.19(1). (*Joindre des copies de toutes les quittances.*)

..... \$ pour le montant minimal prescrit au tarif A pour un interrogatoire à l'appui de l'exécution forcée. (*Joindre un affidavit confirmant que l'interrogatoire a eu lieu.*)

..... \$ pour les autres dépens auxquels le créancier a droit en vertu du paragraphe 60.19(1). (*Joindre le certificat de liquidation des dépens.*)

..... \$ pour les intérêts postérieurs au jugement et courus jusqu'à la date du présent document. (*Aux fins de calculer les intérêts, compter le nombre de jours que la somme principale est échue, multiplier ce nombre*



par le taux d'intérêt annuel, multiplier alors le produit par la somme échue en principal et diviser ce produit par 365.)

date ..... signature.....  
(nom, adresse et numéro de téléphone du  
créancier ou du procureur du créancier)

Règl. de l'Ont. 441/90, art. 20.

21 La formule 60G est modifiée par adjonction, après les mots «dépasser.....\$» à la troisième ligne après l'alinéa b) à la première page, des mots «moins 10 \$ pour vos frais relativement à chaque paiement», et par adjonction, après les mots «MONTANT TOTAL DE ..... \$» à la première ligne de la deuxième page, des mots «MOINS 10 \$ POUR VOS FRAIS RELATIVEMENT À CHAQUE PAIEMENT».

22 La formule 60H est modifiée par substitution, aux mots *chaque avis de saisie-arrêt* à la deuxième ligne, des mots «*l'avis de saisie-arrêt qui doit être signifié au tiers saisi*».

23 (1) Le présent règlement, à l'exception de l'article 2, entre en vigueur le 1<sup>er</sup> septembre 1990.

(2) L'article 2 entre en vigueur le jour de l'entrée en vigueur de l'article 2 de la *Loi de 1989 modifiant la Loi sur les tribunaux judiciaires*, qui constitue le chapitre 55.

34/90

## COURTS OF JUSTICE ACT, 1984

O. Reg. 442/90.

District of Algoma Civil Case Management  
Rules.

Made—June 20th, 1990.

Approved—July 27th, 1990.

Filed—August 1st, 1990.

## REGULATION MADE UNDER THE COURTS OF JUSTICE ACT, 1984

### DISTRICT OF ALGOMA CIVIL CASE MANAGEMENT RULES

#### APPLICATION OF RULES

##### These rules

1.—(1) These rules apply to civil and family proceedings commenced in the District of Algoma.

##### Rules of Civil Procedure

(2) The Rules of Civil Procedure also apply to proceedings to which these rules apply, but in the event of a conflict between these rules and the Rules of Civil Procedure, these rules prevail.

##### Time for defence

(3) The time for delivery of a statement of defence is, subject to the provisions of any Act, the shorter of the time provided by these rules and the time provided by the Rules of Civil Procedure.

##### Default procedures

(4) Nothing in these rules prevents a plaintiff from signing default judgment or taking other measures on default by a party in accordance with the Rules of Civil Procedure or the Act under which an originating pro-



cess is issued, even if the time periods in these rules are longer than those provided in the Rules of Civil Procedure or the Act.

### **Dispensing with these rules**

(5) The court may dispense with compliance with any of these rules where it is just and necessary to do so. O. Reg. 442/90, r. 1.

### **INTERPRETATION**

2.—(1) These rules shall be liberally interpreted to effect the just, expeditious and least expensive determination on its merits of every proceeding to which they apply.

(2) Where a procedure is not provided for in these rules, the practice shall be determined in accordance with the principles set out in subrule (1). O. Reg. 442/90, r. 2.

### **DEFINITIONS**

3. In these rules,

“case management judge” means the judge assigned to a proceeding under rule 12; (“juge responsable de la gestion des causes”)

“Day 1” means the day on which a proceeding is commenced; (“jour premier”)

“defendant” includes a respondent in a divorce action or an application; (“défendeur”)

“plaintiff” includes a petitioner in a divorce action and an applicant; (“demandeur”)

“responding affidavit” means an affidavit filed in response to an application; (“affidavit de défense”)

“statement of claim” includes any originating process; (“déclaration”)

“statement of defence” includes an answer, a responding affidavit, a counterclaim, a counterpetition and a counter-application; (“exposé de la défense”)

“trial” includes the hearing of an application. (“procès”) O. Reg. 442/90, r. 3.

### **CASE INFORMATION STATEMENT**

#### **Plaintiff files on commencement**

4.—(1) The plaintiff shall file a case information statement (Form 1) with the statement of claim when commencing a proceeding.

#### **Choice of track**

(2) In the case information statement, the plaintiff shall select the expedited track, the standard track or the complex track provided under rules 7 to 9.

#### **Change of track**

(3) The plaintiff may change the track selection before service of the statement of claim by filing an amended case information statement.

#### **Service**

(4) The plaintiff shall serve the case information statement in duplicate on every defendant with the statement of claim. O. Reg. 442/90, r. 4.

**RESPONSE TO CASE INFORMATION STATEMENT****Defendant completes, serves and files**

5.—(1) Every defendant shall complete the defendant's portion of the case information statement served on him or her, showing the defendant's response to the information and time estimates provided and the track selected by the plaintiff, and shall serve the completed case information statement on the plaintiff and file it.

**No dispute**

(2) Where no defendant disputes the track selected by the plaintiff, the proceeding shall be on the track selected by the plaintiff.

**Dispute followed by agreement**

(3) Where a defendant disputes the information or time estimates provided or the track selected by the plaintiff, the parties shall confer and attempt to agree on the information, time estimates and track selection and, if the parties reach agreement, they shall jointly file an amended case information statement.

**Dispute procedure where no agreement**

(4) Where the parties are unable to agree on the information, time estimates or track selection, the case management judge, on request of a party, shall hold a case conference and determine the information, time estimates and track for the proceeding. O. Reg. 442/90, r. 5.

**TIME**

6.—(1) The parties may by agreement abridge any time on the case information statement.

(2) The case management judge may at a case conference change the track of a proceeding or abridge or extend the time within which a step is to be taken. O. Reg. 442/90, r. 6.

**EXPEDITED TRACK**

7.—(1) In a proceeding on the expedited track,

- (a) the plaintiff shall file proof of service of the statement of claim and case information statement within forty days after Day 1;
- (b) the defendant shall file the statement of defence with proof of service not later than seventy days after Day 1, unless subrule 1 (3) prescribes an earlier time;
- (c) the registrar shall fix the date of the pre-trial conference within 100 days after Day 1;
- (d) the pre-trial conference shall be held not more than 160 days after Day 1, but at least thirty days after the fixing of its date; and
- (e) the trial shall begin not more than 220 days after Day 1, but at least thirty days after the pre-trial conference.

(2) If a party to an expedited track proceeding serves an affidavit of documents, every other party shall serve an affidavit of documents within ten days. O. Reg. 442/90, r. 7.

**STANDARD TRACK**

8. In a proceeding on the standard track,

- (a) the plaintiff shall file proof of service of the statement of claim and case information statement within forty days after Day 1;
- (b) the defendant shall file the statement of defence with proof of service not later than 100 days after Day 1, unless subrule 1 (3) prescribes an earlier time;
- (c) the registrar shall fix the date of the pre-trial conference within 130 days after Day 1;

- (d) the pre-trial conference shall be held not more than 250 days after Day 1, but at least thirty days after the fixing of its date; and
- (e) the trial shall begin not more than 340 days after Day 1, but at least thirty days after the pre-trial conference. O. Reg. 442/90, r. 8.

## **COMPLEX TRACK**

9. In a proceeding on the complex track,

- (a) the plaintiff shall file proof of service of the statement of claim and case information statement within forty days after Day 1;
- (b) the defendant shall file the statement of defence with proof of service not later than 100 days after Day 1, unless subrule 1 (3) prescribes an earlier time;
- (c) the case management judge shall hold a case conference within thirty days after the filing of the statement of defence and shall set the estimated times for the holding of the pre-trial conference and the trial; and
- (d) the trial shall begin within three years after Day 1. O. Reg. 442/90, r. 9.

## **PROVISIONS APPLICABLE TO ALL TRACKS**

### **Defendant outside Ontario**

10.—(1) Where a defendant is served with the statement of claim outside Ontario, the period for filing the statement of defence is extended by twenty days in the case of service elsewhere in Canada or the United States, or by forty days in the case of service anywhere else.

### **Notice of action and notice of intent to defend**

(2) The times prescribed in these rules are not extended if a notice of action or notice of intent to defend is used.

### **Discovery and cross-examinations**

(3) Discovery or cross-examinations shall be held and undertakings arising from them shall be completed before the date of the pre-trial conference.

### **Trial record**

- (4) A trial record shall be served and filed before the date of the pre-trial conference.

### **Listing for trial**

(5) It is not necessary to serve or file a notice of readiness for trial or a notice of listing for trial, and the registrar shall automatically list a proceeding for trial on the filing of the trial record.

### **Pre-trial brief**

- (6) Each party shall serve and file a pre-trial brief at least one week before the pre-trial conference.

### **Family proceedings**

- (7) In a family proceeding,
  - (a) each party shall serve and file a one-page summary of the issues with the pre-trial brief; and
  - (b) where equalization of net family property is in issue, each party shall serve and file a statement of net family property with the pre-trial brief. O. Reg. 442/90, r. 10.

**COUNTERCLAIM, CROSSCLAIM OR THIRD PARTY CLAIM****Same track as main action**

11.—(1) A counterclaim, crossclaim or third party claim shall be on the same track as the main action.

**Postponement of pre-trial and trial in main action**

(2) If a counterclaim is made against a person who is not already a party to the main action or if a third party claim is issued, the pre-trial conference and trial in the main action shall be postponed in order that they may be held at the same time as the pre-trial conference and trial in the counterclaim or third party claim unless the case management judge directs otherwise.

**Defence of main action by third party**

(3) A third party who defends in the main action may do so within the time for defence of the third party claim.

**Reply and defence to counterclaim**

(4) A reply and defence to counterclaim, if any, shall be served within twenty days after delivery of the statement of defence and counterclaim. O. Reg. 442/90, r. 11.

**CASE MANAGEMENT JUDGE****Assignment**

12.—(1) A case management judge shall be assigned to a proceeding when the statement of claim is filed and the registrar shall note the judge's name on the case information statement.

**Duties**

(2) The case management judge is responsible for the management and general supervision of the proceeding and may make any orders necessary for the orderly disposition of the proceeding.

**Duty judge**

(3) The case management judge shall preside over all case conferences and the pre-trial conference in the proceeding, but if the case management judge is absent, the duty judge may preside.

**Powers**

(4) If a party does not comply with a time limit in these rules or with an order of the case management judge, the case management judge may, on notice to the party and the party's solicitor, in addition to any other remedies,

- (a) where the non-compliance is on the part of a plaintiff, dismiss the plaintiff's proceeding;
- (b) where the non-compliance is on the part of a defendant, strike out the statement of defence.

**Not to preside at trial**

(5) The case management judge shall not preside at the trial of the proceeding. O. Reg. 442/90, r. 12.

**CASE CONFERENCES****When held**

13.—(1) A case conference may be held at any time at the request of a party or the case management judge.

**Complex track**

(2) Where a party selects the complex track in a case information statement, a case conference shall be



held within thirty days after the filing of the statement of defence to discuss a plan of case management, to fix estimated completion dates and to resolve preliminary issues in the proceeding where possible.

#### **Attendance of parties**

(3) The case management judge may require the parties in addition to their solicitors to attend case conferences to facilitate the expeditious and orderly disposition of the proceeding.

#### **By telephone**

(4) A case conference may, with the consent of the case management judge, be held by means of a conference telephone call.

#### **Documents not required**

(5) No documentation need be filed by a party at a case conference unless the case management judge directs otherwise.

#### **Costs**

(6) The case management judge may award costs of a case conference and, if the judge awards costs, he or she shall fix them. O. Reg. 442/90, r. 13.

### **TRANSITIONAL**

#### **General**

14.—(1) A proceeding commenced before the 4th day of September, 1990 becomes subject to these rules on the filing of any document after that date, and for the purpose,

- (a) a case management judge shall be assigned immediately;
- (b) the proceeding shall be deemed to be on the standard track; and
- (c) the time periods for the standard track apply, running from the date of the most recent event referred to in rule 8 that has occurred in the proceeding.

#### **Parties may adopt timetable**

(2) The parties may agree to adopt a specific timetable for the disposition of an action started before the 4th day of September, 1990. O. Reg. 442/90, r. 14.

### **CIVIL CASE MANAGEMENT COMMITTEE**

#### **Composition**

15.—(1) There shall be a Civil Case Management Committee composed of,

- (a) two members of the Algoma District Law Association chosen by that Association to represent the civil bar and two members similarly chosen to represent the family bar;
- (b) the local registrar, the deputy registrar and the Regional Director of Courts Administration or his or her designate; and
- (c) the judges of the Ontario Court (General Division) who reside in the District of Algoma and the regional senior judge or his or her designate.

#### **Rule amendments**

(2) The Civil Case Management Committee shall consider proposals for amendments to these rules that are submitted to it and may present recommendations for amendment to the Civil Rules Committee. O. Reg. 442/90, r. 15.

**ALTERNATIVE DISPUTE RESOLUTION****Civil case panel and family case panel**

16.—(1) There shall be two alternative dispute resolution panels, one for civil proceedings and one for family proceedings, which shall consist of volunteer members of the Algoma District Law Association who are prepared to serve or any other persons agreed upon by the parties.

**Duties of panel members**

(2) Panel members shall hear and give opinions on issues that the parties ask them to determine in accordance with subrules (3) and (4).

**Parties may agree to alternative dispute resolution**

(3) The parties to a proceeding may agree at any time that, in addition to any other form of pre-trial conference, any issues in the proceeding be considered by one or two members of a dispute resolution panel.

**Recommendation**

(4) One or two members of the appropriate panel who are agreed to by the parties shall hear the issues and shall make a recommendation for the resolution of the issues.

**Parties not bound by recommendation**

(5) A recommendation of a panel member is not binding on the parties unless the parties agree otherwise in advance.

**No disclosure to the court**

(6) No communication shall be made to the judge or officer presiding at the hearing of the proceeding or a motion or reference in the proceeding with respect to any statement made at the alternative dispute resolution hearing, unless the parties and the panel members consent. O. Reg. 442/90, r. 16.

**SHORT TITLE**

17. These rules may be cited as the Algoma Civil Case Management Rules.

**COMMENCEMENT**

18. These rules come into force on the 4th day of September, 1990.

**REVOCATION**

19. These rules are revoked on the 7th day of September, 1992.

CASE INFORMATION STATEMENT (Form 1) Amended (    )

File No. ....

Date: .....

Plaintiff(s) .....		Defendant(s) .....			
.....		.....			
.....		.....			
.....		.....			
.....		.....			
Solicitor's name		Solicitor's name			
.....		.....			
.....		.....			
Telephone No. (    ) -		Telephone No. (    ) -			
TRACK:    Expedited T1 .....		Standard T2 ..... Complex T3 .....			
Briefly explain why expedited or complex .....					
.....					
.....					
Category of Case (check as many as apply)					
Torts:		Contracts:			
Other:		Family:			
Motor vehicle .....	Real property .....	Bankruptcy .....	Divorce .....		
Professional .....	Construction lien .....	Landlord/tenant .....	Property .....		
malpractice .....	Collection .....	Breach of trust .....	Support .....		
Other negligence .....	Wrongful dismissal .....	Estates .....	Custody .....		
Other tort .....	Other breach .....	Other .....	Variation .....		
	of contract .....		Other .....		
Completion times:		T1	T2	T3	Due dates
1. File statement of claim with proof of service		40	40	40	.....
2. File statement of defence with proof of service		30	60	60	.....
3. Set pre-trial date after statement of defence filed		30	30	*	.....
4. When ready for pre-trial after defence filed?		30/ 60	30/ 120	*	.....
5. When ready for trial?					.....
ALTERNATIVE DISPUTE MECHANISM					
Is A.D.R. requested? ..... (Do A.D.R. request form)					
IS THIS A JURY CASE? .....					
CASE MANAGEMENT JUDGE					

RESPONSE OF DEFENDANT TO THE CASE INFORMATION STATEMENT

Name of defendant .....
Name of solicitor .....
I disagree with the following information, track selection or completion times given by the plaintiff on the case information statement on the reverse and ask that it be amended as shown: <i>(Give full details of matters in dispute, including track preferred.)</i>
Is a case conference requested? .....
I consent to the defendant's amendment. ..... solicitor for the plaintiff
DISPOSITION OF CASE MANAGEMENT JUDGE:



## LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

**Règl. de l'Ont. 442/90**

Règles de gestion des causes civiles du

district d'Algoma

pris—le 20 juin 1990

approuvé—le 27 juillet 1990

déposé—le 1<sup>er</sup> août 1990RÈGLEMENT PRIS EN APPLICATION  
DE LA LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

## RÈGLES DE GESTION DES CAUSES CIVILES DU DISTRICT D'ALGOMA

**CHAMP D'APPLICATION DES RÈGLES****Présentes règles**

1 (1) Les présentes règles s'appliquent aux instances civiles et aux instances en droit de la famille introduites dans le district d'Algoma.

**Règles de procédure civile**

(2) Les Règles de procédure civile s'appliquent également aux instances auxquelles s'appliquent les présentes règles. Toutefois, en cas d'incompatibilité entre les présentes règles et les Règles de procédure civile, les premières l'emportent.

**Délai de remise d'une défense**

(3) Sous réserve des dispositions de toute loi, le délai de remise d'un exposé de défense correspond au délai prévu par les présentes règles ou à celui prévu par les Règles de procédure civile, si ce dernier est plus court.

**Procédure en cas de défaut**

(4) Les présentes règles n'ont pas pour effet d'empêcher un demandeur de consigner un jugement par défaut ou de prendre d'autres mesures en cas de défaut d'une partie, conformément aux Règles de procédure civile ou à la Loi aux termes de laquelle un acte introductif d'instance est délivré, même si les délais impartis dans les présentes règles sont plus longs que ceux prévus par les Règles de procédure civile ou la Loi.

**Dispense d'observation des présentes règles**

(5) Le tribunal peut dispenser les parties de l'observation de n'importe laquelle des présentes règles s'il estime cela juste et nécessaire. Règl. de l'Ont. 442/90, règle 1.

**INTERPRÉTATION**

2 (1) Les présentes règles doivent recevoir une interprétation large afin d'assurer la résolution équitable sur le fond, d'une façon expéditive et de la façon la moins onéreuse, des instances auxquelles elles s'appliquent.

(2) Si une procédure n'est pas prévue par les présentes règles, la pratique applicable est déterminée conformément aux principes énoncés au paragraphe (1). Règl. de l'Ont. 442/90, règle 2.

**DÉFINITIONS**

3 Les définitions qui suivent s'appliquent aux présentes règles.

«affidavit de défense» S'entend d'un affidavit déposé en réponse à une requête. («responding affidavit»)

«déclaration» S'entend notamment d'un acte introductif d'instance. («statement of claim»)

«défendeur» S'entend en outre de l'intimé dans une action en divorce ou dans une requête. («defendant»)

«demandeur» S'entend en outre d'un requérant, et notamment d'un requérant dans une action en divorce. («plaintiff»)

«exposé de la défense» S'entend en outre d'une défense à la requête en divorce, d'un affidavit de défense, d'une demande reconventionnelle, d'une requête reconventionnelle, ainsi que d'une requête reconventionnelle en divorce. («statement of defence»)

«jour premier» Le jour auquel une instance est introduite. («Day 1»)

«juge responsable de la gestion des causes» Le juge affecté à une instance aux termes de la règle 12. («case management judge»)

«procès» S'entend en outre de l'audition d'une requête. («trial») Règl. de l'Ont. 442/90, règle 3.

## EXPOSÉ INFORMATIF DE CAUSE

### Dépôt des documents par le demandeur à l'introduction

4 (1) Le demandeur dépose, avec sa déclaration, un exposé informatif de cause (formule 1) au moment de l'introduction de l'instance.

#### Choix d'une voie

(2) Le demandeur indique dans l'exposé informatif de cause son choix entre la voie accélérée, la voie ordinaire ou la voie des causes complexes prévues aux règles 7 à 9.

#### Changement de voie

(3) Le demandeur peut modifier son choix de voie avant de signifier sa déclaration en déposant à cette fin un exposé informatif de cause modifié.

#### Signification

(4) Le demandeur signifie à chaque défendeur l'exposé informatif de cause en double exemplaire, accompagné de la déclaration. Règl. de l'Ont. 442/90, règle 4.

## RÉPONSE À L'EXPOSÉ INFORMATIF DE CAUSE

### Signification et dépôt par le défendeur de l'exposé dûment rempli

5 (1) Chaque défendeur remplit la partie qui lui est réservée de l'exposé informatif de cause qui lui a été signifié, en indiquant sa réponse à l'égard des renseignements fournis, des délais envisagés et de la voie choisie par le demandeur. Après l'avoir dûment rempli, il signifie cet exposé au demandeur et le dépose.

#### Absence de contestation

(2) Si aucun défendeur ne conteste la voie choisie par le demandeur, l'instance est placée dans la voie choisie par ce dernier.

#### Contestation suivie d'un accord

(3) Si un défendeur conteste les renseignements fournis, les délais envisagés ou la voie choisie par le demandeur, les parties confèrent et tentent de s'entendre sur les renseignements, les délais envisagés et le choix d'une voie. Si elles parviennent à un accord, les parties déposent conjointement un exposé informatif de cause modifié.

#### Procédure de résolution du différend à défaut d'accord

(4) Si les parties ne peuvent se mettre d'accord sur les renseignements, les délais envisagés ou le choix d'une voie, le juge responsable de la gestion des causes, sur demande d'une partie, tient une étude de cause en groupe et rend une décision sur les renseignements, les délais envisagés et la voie en ce qui concerne l'instance. Règl. de l'Ont. 442/90, règle 5.

**DÉLAIS**

6 (1) Les parties peuvent, par accord, abréger tout délai indiqué sur l'exposé informatif de cause.

(2) Le juge responsable de la gestion des causes peut, lors d'une étude de cause en groupe, changer la voie d'une instance ou abréger ou proroger le délai dans lequel une mesure doit être prise. Règl. de l'Ont. 442/90, règle 6.

**VOIE ACCÉLÉRÉE**

7 (1) Dans une instance placée dans la voie accélérée :

- a) le demandeur dépose une preuve de signification de la déclaration et de l'exposé informatif de cause dans les quarante jours suivant le jour premier;
- b) le défendeur dépose l'exposé de la défense avec une preuve de sa signification au plus tard soixante-dix jours après le jour premier, à moins que le paragraphe 1 (3) ne prescrive une date plus rapprochée;
- c) le greffier fixe la date de la conférence préparatoire au procès dans les 100 jours suivant le jour premier;
- d) la conférence préparatoire au procès se tient au plus 160 jours après le jour premier, mais suit d'au moins trente jours la date de fixation de cette date;
- e) le procès débute au plus 220 jours après le jour premier, mais au moins trente jours après la conférence préparatoire au procès.

(2) Si une partie à une instance placée dans la voie accélérée signifie un affidavit de documents, chacune des autres parties signifie un affidavit de documents dans les dix jours. Règl. de l'Ont. 442/90, règle 7.

**VOIE ORDINAIRE**

8 Dans une instance placée dans la voie ordinaire :

- a) le demandeur dépose une preuve de signification de la déclaration et de l'exposé informatif de cause dans les quarante jours suivant le jour premier;
- b) le défendeur dépose l'exposé de la défense avec une preuve de sa signification au plus tard 100 jours après le jour premier, à moins que le paragraphe 1 (3) ne prescrive une date plus rapprochée;
- c) le greffier fixe la date de la conférence préparatoire au procès dans les 130 jours suivant le jour premier;
- d) la conférence préparatoire au procès se tient au plus 250 jours après le jour premier, mais au moins trente jours après la date de fixation de cette date;
- e) le procès débute au plus 340 jours après le jour premier, mais au moins trente jours après la conférence préparatoire au procès. Règl. de l'Ont. 442/90, règle 8.

**VOIE DES CAUSES COMPLEXES**

9 Dans une instance placée dans la voie des causes complexes :

- a) le demandeur dépose une preuve de signification de la déclaration et de l'exposé informatif de cause dans les quarante jours suivant le jour premier;
- b) le défendeur dépose l'exposé de la défense avec une preuve de sa signification au plus tard 100 jours après le jour premier, à moins que le paragraphe 1 (3) ne prescrive une date plus rapprochée;
- c) le juge responsable de la gestion des causes tient une étude de cause en groupe dans les trente jours suivant le dépôt de l'exposé de la défense et fixe les dates prévues pour la tenue de la conférence préparatoire au procès et du procès;
- d) le procès débute dans les trois ans suivant le jour premier. Règl. de l'Ont. 442/90, règle 9.

**DISPOSITIONS APPLICABLES À TOUTES LES VOIES****Défendeur en dehors de l'Ontario**

10 (1) Si la déclaration est signifiée à un défendeur en dehors de l'Ontario, le délai imparti pour déposer l'exposé de la défense est prorogé de vingt jours dans le cas d'une signification faite ailleurs au Canada ou aux États-Unis, ou de quarante jours dans le cas d'une signification faite n'importe où ailleurs.

**Avis d'action et avis d'intention de présenter une défense**

(2) Les délais prescrits par les présentes règles ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Enquête préalable et contre-interrogatoires**

(3) L'enquête préalable est menée ou les contre-interrogatoires sont effectués et les engagements en découlant sont remplis avant la date de la conférence préparatoire au procès.

**Dossier d'instruction**

(4) Un dossier d'instruction est signifié et déposé avant la date de la conférence préparatoire au procès.

**Inscription pour instruction**

(5) Il n'est pas nécessaire de signifier ou de déposer un avis de mise en état, ni un avis d'inscription au rôle. Le greffier inscrit d'office l'instance pour instruction dès que le dossier d'instruction est déposé.

**Mémoire préparatoire au procès**

(6) Chaque partie signifie et dépose un mémoire préparatoire au procès au moins une semaine avant la conférence préparatoire au procès.

**Instances en droit de la famille**

(7) Dans une instance en droit de la famille :

- a) d'une part, chaque partie signifie et dépose un résumé d'une page des questions en litige avec le mémoire préparatoire au procès;
- b) d'autre part, si l'égalisation des biens familiaux nets constitue une question en litige, chaque partie signifie et dépose une déclaration des biens familiaux nets avec le mémoire préparatoire au procès. Règl. de l'Ont. 442/90, règle 10.

**DEMANDES RECONVENTIONNELLES, DEMANDES ENTRE DÉFENDEURS OU MISES EN CAUSE****Même voie que pour l'action principale**

11 (1) Une demande reconventionnelle, une demande entre défendeurs ou une mise en cause sont placées dans la même voie que l'action principale.

**Report de la conférence préparatoire au procès et du procès relatifs à l'action principale**

(2) Si une demande reconventionnelle est présentée contre une personne qui n'est pas déjà partie à l'action principale ou si une mise en cause est délivrée, la conférence préparatoire au procès et le procès relatifs à l'action principale sont reportés à plus tard afin qu'ils puissent avoir lieu en même temps que la conférence préparatoire au procès et que le procès relatifs à la demande reconventionnelle ou à la mise en cause, sauf ordonnance contraire du juge responsable de la gestion des causes.

**Contestation de l'action principale par un tiers mis en cause**

(3) Un tiers mis en cause qui veut présenter une défense dans l'action principale peut le faire dans le délai imparti pour présenter une défense à la mise en cause.



**Réponse et défense à la demande reconventionnelle**

(4) Toute réponse et défense à la demande reconventionnelle est signifiée dans les vingt jours suivant la remise de l'exposé de la défense et demande reconventionnelle. Règl. de l'Ont. 442/90, règle 11.

**JUGE RESPONSABLE DE LA GESTION DES CAUSES****Affectation**

12 (1) Lorsque la déclaration est déposée, un juge responsable de la gestion des causes est affecté à l'instance et le greffier indique le nom du juge sur l'exposé informatif de cause.

**Fonctions**

(2) Le juge responsable de la gestion des causes est chargé de l'administration et de la surveillance générale de l'instance et peut rendre toute ordonnance nécessaire pour assurer son règlement en bonne et due forme.

**Juge de service**

(3) Le juge responsable de la gestion des causes préside toutes les études de cause en groupe, ainsi que la conférence préparatoire au procès dans l'instance. Toutefois, en cas d'absence du juge responsable de la gestion des causes, le juge de service peut assurer la présidence.

**Pouvoirs**

(4) Si une partie n'observe pas un délai prévu par les présentes règles ou une ordonnance rendue par le juge responsable de la gestion des causes, ce dernier peut, sur préavis adressé à la partie et au procureur de celle-ci, en plus de recourir à toute autre mesure :

- a) rejeter l'instance du demandeur, si l'inobservation est le fait du demandeur;
- b) radier l'exposé de la défense, si l'inobservation est le fait du défendeur.

**Interdiction de présider le procès**

(5) Le juge responsable de la gestion des causes ne doit pas présider le procès. Règl. de l'Ont. 442/90, règle 12.

**ÉTUDES DE CAUSE EN GROUPE****Moment de la tenue de l'étude de cause en groupe**

13 (1) Sur demande d'une partie ou du juge responsable de la gestion des causes, une étude de cause en groupe peut avoir lieu à n'importe quel moment.

**Voie des causes complexes**

(2) Si une partie indique qu'elle choisit la voie des causes complexes dans l'exposé informatif de cause, une étude de cause en groupe a lieu dans les trente jours suivant le dépôt de l'exposé de la défense pour discuter d'un plan de gestion de la cause, fixer les dates d'exécution prévues et résoudre, dans la mesure du possible, les questions en litige préalables qui font l'objet de l'instance.

**Présence des parties**

(3) Le juge responsable de la gestion des causes peut exiger des parties qu'elles assistent, comme y sont tenus leurs procureurs, à des études de cause en groupe en vue de favoriser le règlement expéditif et en bonne et due forme de l'instance.

**Conférence téléphonique**

(4) Une étude de cause en groupe peut se faire par conférence téléphonique, si le juge responsable de la gestion des causes y consent.

**Documents non requis**

(5) Sauf ordonnance contraire du juge responsable de la gestion des causes, les parties ne sont pas tenues de déposer des documents lors d'une étude de cause en groupe.

**Dépens**

(6) Le juge responsable de la gestion des causes peut adjuger les dépens d'une étude de cause en groupe. S'il adjuge les dépens, il en fixe également le montant. Règl. de l'Ont. 442/90, règle 13.

**DISPOSITIONS TRANSITOIRES****Dispositions générales**

**14** (1) Toute instance introduite avant le 4 septembre 1990 devient assujettie aux présentes règles si un document est déposé après cette date. À cette fin :

- a) un juge responsable de la gestion des causes est immédiatement affecté à l'instance;
- b) l'instance est réputée placée dans la voie ordinaire;
- c) les délais relatifs à la voie ordinaire s'appliquent, et ce à compter de la date de l'événement le plus récent visé à la règle 8 qui est survenu au cours de l'instance.

**Adoption possible d'un calendrier par les parties**

(2) Les parties peuvent convenir d'adopter un calendrier particulier aux fins du règlement d'une action commencée avant le 4 septembre 1990. Règl. de l'Ont. 442/90, règle 14.

**COMITÉ DE GESTION DES CAUSES CIVILES****Composition**

**15** (1) Est constitué un comité appelé Comité de gestion des causes civiles qui se compose des membres suivants :

- a) deux membres de l'association des avocats du district d'Algoma, choisis par cette association pour représenter les avocats exerçant en droit civil, et deux membres choisis d'une façon similaire pour représenter les avocats exerçant en droit de la famille;
- b) le greffier local, le greffier adjoint et le directeur régional de l'administration des tribunaux ou la personne désignée à cette fin par ce dernier;
- c) les juges de la Cour de l'Ontario (Division générale) qui résident dans le district d'Algoma et le juge principal régional ou la personne désignée à cette fin par ce dernier.

**Modification des présentes règles**

(2) Le Comité de gestion des causes civiles examine les propositions de modification des présentes règles qui lui sont soumises et peut soumettre des recommandations de modification au Comité des règles en matière civile. Règl. de l'Ont. 442/90, règle 15.

**RÈGLEMENT PARALLÈLE DES DIFFÉRENDS****Comité des causes civiles et comité des causes en droit de la famille**

**16** (1) Sont constitués deux comités de règlement parallèle des différends, l'un chargé du règlement des instances civiles et l'autre de celui des instances en droit de la famille. Ces comités se composent de membres

de l'association des avocats du district d'Algoma qui se portent volontaires et sont disposés à offrir leurs services ou de toute autre personne dont sont convenues les parties.

#### **Fonctions des membres des comités**

(2) Les membres des comités entendent les questions en litige que les parties leur demandent de trancher conformément aux paragraphes (3) et (4), et émettent des avis sur ces questions.

#### **Possibilité pour les parties de convenir d'un autre mode de règlement du différend**

(3) Les parties à une instance peuvent convenir en tout temps qu'en plus de toute autre forme de conférence préparatoire au procès, toute question en litige faisant l'objet de l'instance soit examinée par un ou deux membres d'un comité de règlement des différends.

#### **Recommandation**

(4) Le membre ou les deux membres du comité approprié dont sont convenues les parties entendent les questions en litige et font une recommandation aux parties en vue de les résoudre.

#### **Parties non liées par la recommandation**

(5) La recommandation d'un membre d'un comité ne lie pas les parties, sauf si elles en ont convenu d'avance.

#### **Non-divulgation au tribunal**

(6) Sauf du consentement des parties et des membres du comité, aucune communication touchant toute déclaration faite lors d'une audience aux fins d'un règlement parallèle du différend ne doit être faite au juge ou à l'officier de justice qui préside l'audition de l'instance, ou d'une motion ou d'un renvoi dans l'instance. Règl. de l'Ont. 442/90, règle 16.

#### **TITRE ABRÉGÉ**

17 Le titre abrégé des présentes règles est Règles de gestion des causes civiles d'Algoma.

#### **ENTRÉE EN VIGUEUR**

18 Les présentes règles entrent en vigueur le 4 septembre 1990.

#### **ABROGATION**

19 Les présentes règles sont abrogées le 7 septembre 1992.

EXPOSÉ INFORMATIF DE CAUSE (Formule 1) Modifié ( )

Dossier n° .....

Date : .....

Demandeur(s) ..... ..... ..... ..... ..... .....	Défendeur(s) ..... ..... ..... ..... ..... .....
---	---

Nom du procureur	Nom du procureur
.....	.....
.....	.....
N° de téléphone (    ) -	N° de téléphone (    ) -

VOIE :	Accélérée V1 .....	Ordinaire V2 .....	Causes complexes V3 .....
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Expliquer brièvement pourquoi la voie accélérée ou la voie des causes complexes a été choisie : .....

Catégorie de cause (cocher toute catégorie applicable) :

Délits civils :

### Contrats :

Autre :

Famille :

Véhicule automobile	.....	Biens immeubles	.....	Faillite	.....	Divorce	.....
Négligence professionnelle	.....	Privilège dans l'industrie de la construction	.....	Propriétaire/locataire	.....	Biens	.....
Autre négligence	.....	Recouvrement	.....	Abus de confiance	.....	Aliments	.....
Autre délit	.....	Congédiement injustifié	.....	Successions	.....	Garde d'enfants	.....
		Autre inexécution de contrat	.....	Autre	.....	Modification d'ordonnance	.....
						Autre	.....

Délais d'exécution :

V1	V2	V3
----	----	----

Échéances

- |   |           |            |    |
|---|-----------|------------|----|
| 1. Dépôt de la déclaration avec une preuve de sa signification  | 40        | 40         | 40 |
| 2. Dépôt de l'exposé de la défense avec une preuve de sa signification                                  | 30        | 60         | 60 |
| 3. Fixation de la date de la conférence préparatoire au procès après le dépôt de l'exposé de la défense | 30        | 30         | *  |
| 4. Date où la conférence préparatoire sera en état après le dépôt de la défense                         | 30/<br>60 | 30/<br>120 | *  |
| 5. Date où le procès sera en état   |           |            |    |

MÉCANISME DE RÈGLEMENT PARALLÈLE DES DIFFÉRENDS

Un règlement parallèle du différend est-il demandé? ..... (Remplir la formule de demande de règlement parallèle du différend)

S'AGIT-IL D'UNE CAUSE DEVANT JURY? .....

JUGE RESPONSABLE DE LA GESTION DES CAUSES



RÉPONSE DU DÉFENDEUR À L'EXPOSÉ INFORMATIF DE CAUSE

Nom du défendeur : .....
Nom du procureur : .....
Je ne suis pas d'accord avec les renseignements fournis, la voie choisie ou les délais d'exécution donnés par le demandeur dans l'exposé informatif de cause figurant au recto et je demande qu'il soit modifié tel qu'indiqué : <i>(Donner tous les détails sur les questions en litige, y compris la voie préférée.)</i>
Une étude de cause en groupe est-elle demandée? .....
Je consens à la modification proposée par le défendeur. ..... procureur du demandeur
DÉCISION DU JUGE RESPONSABLE DE LA GESTION DES CAUSES :

Règl. de l'Ont. 442/90, formule 1.

**COURTS OF JUSTICE ACT, 1984****O. Reg. 443/90.**

Essex Civil Case Management Rules.

Made—June 20th, 1990.

Approved—July 27th, 1990.

Filed—August 1st, 1990.

**REGULATION MADE UNDER THE  
COURTS OF JUSTICE ACT, 1984****ESSEX CIVIL CASE MANAGEMENT RULES****TABLE OF CONTENTS**

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Form 7	Case management order (family variation track)

**SCOPE**

1.—(1) These rules apply to proceedings commenced in the County of Essex.

**Exception, applications**

(2) Except as provided in subrule 13 (1) (family variation track), these rules do not apply to applications, even if they are to be treated as actions under subrule 38.11 (2) or (3) of the Rules of Civil Procedure. O. Reg. 443/90, r. 1.

**RULES OF CIVIL PROCEDURE**

2. The Rules of Civil Procedure also apply to proceedings to which these rules apply, but these rules prevail in the event of conflict. O. Reg. 443/90, r. 2.

**INTERPRETATION**

3.—(1) These rules shall be liberally interpreted to secure the just, most expeditious and least expensive determination, on the merits, of proceedings to which they apply.

**Matters not provided for**

(2) If matters are not provided for in these rules, the practice shall be determined by analogy to them.

**Dispensing with compliance**

(3) The court may dispense with compliance with any provision of these rules if it is just and necessary to do so. O. Reg. 443/90, r. 3.

**DEFINITIONS**

4. In these rules,

“Day 1” means the day on which a proceeding is commenced; (“jour premier”)

“defendant” includes the respondent in a divorce action; (“défendeur”)

“plaintiff” includes the petitioner in a divorce action. (“demandeur”) O. Reg. 443/90, r. 4.

**ACTIONS COMMENCED ON OR AFTER SEPTEMBER 4, 1990****CASE INFORMATION STATEMENT**

5.—(1) When a divorce petition, statement of claim or notice of action is issued on or after the 4th day of September, 1990, the plaintiff shall file a case information statement (Form 1) selecting,

- (a) the family track, in the case of an action under the *Divorce Act*, the *Family Law Act, 1986* or the *Children's Law Reform Act*, an action respecting a domestic contract, or an action in constructive trust between spouses or persons who have cohabited;
- (b) the fast lien track, in the case of a construction lien action; or
- (c) the fast track or the standard track, in the case of any other action.

**Case management order**

(2) When the plaintiff files the case information statement, the court shall make a case management order in Form 2 (fast track), Form 3 (standard track), Form 4 (family track) or Form 5 (fast lien track). O. Reg. 443/90, r. 5.

**FAST TRACK**

6. The following provisions apply to an action on the fast track:

**Statement of claim**

- 1. The plaintiff shall serve the statement of claim, together with the plaintiff's affidavit of documents, the case information statement and the case management order, within thirty days after Day 1, and file them with proof of service within forty days after Day 1. Copies of the documents referred to in Schedule A of the plaintiff's affidavit of documents shall be served with the statement of claim and other documents, but shall not be filed.

**Default**

2. If the plaintiff does not comply with paragraph 1 and remains in default on the forty-fifth day after Day 1, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Statement of defence**

3. The defendant shall serve the statement of defence, together with the defendant's affidavit of documents, within thirty days after the date of service of the statement of claim, and shall file them with proof of service within forty days after that date. Copies of the documents referred to in Schedule A of the defendant's affidavit of documents shall be served with the statement of defence and affidavit of documents, but shall not be filed.

**Default**

4. On the forty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.

**Service outside Ontario**

5. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

6. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

7. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

**Leave for motions**

8. No motion may be made without leave, except a motion referred to in paragraph 11 (examinations for discovery) or subrule 11 (2) (timely transfers).

**Refusal of leave**

9. If leave for a motion is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 10, immediately and regardless of the outcome of the proceeding.

**Costs**

10. When a party is required to pay costs under paragraph 9, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Examinations for discovery**

11. No party may conduct examinations for discovery lasting more than three hours in total without leave. The motion for leave may itself be made without leave.

**Notices of readiness**

12. It is not necessary to serve notices of readiness for trial.



**Listing for trial**

13. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Date and time of pre-trial conference, fast track list**

14. As soon as the action is listed for trial, the registrar shall place it on the fast track list, fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for filing pre-trial conference briefs shall be at least fourteen days before the day fixed for the pre-trial conference.

**Failure to file pre-trial conference brief**

15. If a party does not file a pre-trial conference brief by the date fixed by the registrar, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 16, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

16. When a party is required to pay costs under paragraph 15, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No further examinations for discovery without leave**

17. After the date fixed for the pre-trial conference, no party may examine for discovery without leave.

**Pre-trial conference**

18. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

19. At the pre-trial conference, the judge shall fix a trial date.

**Trial**

20. The trial shall begin within six months after Day 1. O. Reg. 443/90, r. 6.

**STANDARD TRACK**

7. The following provisions apply to an action on the standard track:

**Statement of claim**

1. The plaintiff shall serve the statement of claim, together with the case information statement and the case management order, within thirty days after Day 1, and file them with proof of service within forty days after Day 1.

**Default**

2. If the plaintiff does not comply with paragraph 1 and remains in default on the forty-fifth day after Day 1, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Statement of defence**

3. The defendant shall serve the statement of defence within thirty days after the date of service of the statement of claim and shall file it with proof of service within forty days after that date.

**Default**

4. On the forty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.

**Service outside Ontario**

5. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

6. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

7. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

**Notices of readiness**

8. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

9. The plaintiff shall serve and file the record and list the action for trial within seventy-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Date and time of pre-trial conference, standard track list**

10. As soon as the action is listed for trial, the registrar shall place it on the standard track list, fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for the pre-trial conference shall be at least eight months after the day the action is listed for trial (unless an earlier date is available and the parties consent), and the date fixed for filing pre-trial conference briefs shall be at least thirty days before the day fixed for the pre-trial conference.

**Failure to file pre-trial conference brief**

11. If a party does not file a pre-trial conference brief by the date fixed by the registrar, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 12, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

12. When a party is required to pay costs under paragraph 11, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No further examinations for discovery or motions without leave**

13. After the date fixed for the pre-trial conference, no party may examine for discovery or make a motion without leave.

**Refusal of leave**

14. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding.

**Costs**

15. When a party is required to pay costs under paragraph 14, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Pre-trial conference**

16. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

17. At the pre-trial conference, the judge shall fix a trial date, which shall be at least thirty days after the pre-trial conference.

**Trial**

18. The trial shall begin within eighteen months after Day 1. O. Reg. 443/90, r. 7.

**FAMILY TRACK**

8. The following provisions apply to an action on the family track:

**Date of management conference**

1. At the time of making the case management order, the court shall fix a date for a management conference, to take place at least ninety days but not more than 120 days after Day 1.

**Petition or statement of claim**

2. The plaintiff shall serve the petition or statement of claim, together with the financial statement if required, the case information statement and the case management order, within thirty days after Day 1, and file them with proof of service within forty days after Day 1.

**Default**

3. If the plaintiff does not comply with paragraph 2 and remains in default on the forty-fifth day after Day 1, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Answer or statement of defence**

4. The defendant shall serve the answer or statement of defence, together with the financial statement if required, within thirty days after the date of service of the petition or statement of claim, and shall file them with proof of service within forty days after that date.

**Default**

5. On the forty-fifth day after the date of service of the petition or statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 4.

**Service outside Ontario**

6. If the defendant is served with the petition or statement of claim outside Ontario, the periods for serving and filing the answer or statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

7. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

8. The reply, if any, shall be delivered within twenty days after delivery of the answer or statement of defence. No reply shall be delivered after that time without leave of the court.

**Notices of readiness**

9. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

10. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Family track**

11. As soon as the action is listed for trial, the registrar shall place it on the family track list.

**Rescheduling management conference**

12. The court may, on a party's motion, reschedule the management conference for an earlier date. The motion does not require supporting written material and may be heard by means of a conference telephone call.

**Documents for management conference**

13. At least seven days before the date of the management conference, every party shall serve on every other party and file with proof of service a one-page summary of the issues in the action, a net family property statement, if required, with copies of documents substantiating the calculations, and a list of documents still to be obtained.

**Failure to file documents**

14. If a party does not file the documents within the prescribed time period, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

15. When a party is required to pay costs under paragraph 14, 18 or 20, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Management conference**

16. All parties, as well as counsel, shall attend the management conference, unless an order excusing a party is made before the date fixed for the management conference.



17. A judge, a master or a person designated by the regional senior judge shall preside at the management conference, shall discuss with the parties the possibility of settlement and may give all necessary directions, including a direction for the immediate trial of an issue.

#### **Failure to comply with direction**

18. If a party fails to comply with a direction given at the management conference, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

#### **Date and time of pre-trial conference**

19. At the management conference, the person presiding shall also fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for filing pre-trial conference briefs shall be at least thirty days before the date fixed for the pre-trial conference.

#### **Failure to file pre-trial conference brief**

20. If a party does not file a pre-trial conference brief by the date fixed under paragraph 19, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

#### **No further examinations for discovery or motions without leave**

21. After the date fixed for the pre-trial conference, no party may examine for discovery or make a motion without leave.

#### **Refusal of leave**

22. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 23, immediately and regardless of the outcome of the proceeding.

#### **Costs**

23. When a party is required to pay costs under paragraph 22, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

#### **Pre-trial conference**

24. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

#### **Who shall preside**

25. The person who presided at the management conference shall also preside at the pre-trial conference.

#### **Trial date**

26. At the pre-trial conference, the person presiding shall fix a trial date, which shall be at least thirty days after the pre-trial conference.

#### **Trial**

27. The trial shall begin within one year of Day 1. O. Reg. 443/90, r. 8.

**FAST LIEN TRACK****Definition**

9.—(1) In this rule, “Act” means the *Construction Lien Act, 1983*. (“Loi”)

**Special provisions**

(2) The following provisions apply to an action on the fast lien track:

**Statement of claim**

1. The plaintiff shall serve the statement of claim, together with the plaintiff's affidavit of documents, the case information statement and the case management order, within ninety days after Day 1, in accordance with subsection 55 (2) of the Act, and shall file them with proof of service within 100 days after Day 1. The documents referred to in Schedule A of the plaintiff's affidavit of documents shall include the claim for lien (as registered, if the lien attaches to the premises) and affidavit of verification, and shall be served with the statement of claim and other documents, but shall not be filed.

**Default**

2. If the plaintiff does not comply with paragraph 1 and remains in default on the 105th day after Day 1, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence. However, unless the court orders otherwise, the registration of the claim for lien and of any certificate of action in respect of the lien shall not be vacated until ten days have elapsed after the order of dismissal is served on the plaintiff.

**Statement of defence**

3. The defendant shall deliver the statement of defence, together with the defendant's affidavit of documents, within twenty days after the date of service of the statement of claim, in accordance with subsection 56 (1) of the Act. Copies of the documents referred to in Schedule A of the defendant's affidavit of documents shall be served with the statement of defence and affidavit of documents, but shall not be filed.

**Default**

4. On the twenty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.

**Motion for judgment**

5. The plaintiff shall move for judgment within sixty days after the defendant is noted in default. Affidavit evidence may be received at the hearing of the motion.

**Default**

6. If the plaintiff does not comply with paragraph 5, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action. However, unless the court orders otherwise, the registration of the claim for lien and of any certificate of action in respect of the lien shall not be vacated until ten days have elapsed after the order of dismissal is served on the plaintiff.

**Service outside Ontario**

7. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

8. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

9. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

**Settlement meeting obligatory**

10. A settlement meeting shall be held in accordance with section 63 of the Act on a day chosen by the plaintiff, at least thirty days but no more than fifty days after the date of service of the statement of claim. It is not necessary to obtain an order for the holding of the meeting under subsection 62 (1) of the Act.

**Notice**

11. The plaintiff shall serve notice of the settlement meeting in accordance with subsection 62 (2) of the Act and shall file proof of service within ten days after service. A copy of the case management order shall be served with the notice of the settlement meeting.

**Date for hearing of motion**

12. When proof of service of the notice of settlement meeting is filed, the registrar shall fix a date that is at least fifteen days but no more than sixty days after the date of the settlement meeting, for the hearing of a motion before a judge for the purposes set out in subsection 63 (5) of the Act. The registrar shall notify the plaintiff of the date and the plaintiff shall serve the notice of motion in accordance with subsection 62 (2) of the Act and shall file proof of service.

**Statement of settlement**

13. If the settlement meeting does not result in a complete settlement of the action, the statement of settlement referred to in subsection 63 (3) of the Act shall, in addition to summarizing any issues of fact and law that have been settled by the parties, contain:
  - i. the names of the lien claimants,
  - ii. if entitlement to a lien or perfection or preservation of a lien are in question, a summary of the relevant issues,
  - iii. a statement of the priorities of the lien claimants and encumbrancers or, if there is no agreement as to priorities, a summary of the relevant issues,
  - iv. a summary of any other issues of fact and law to be determined at trial,
  - v. a statement identifying the documents agreed on for filing at trial and, if the admissibility or authenticity of a document is in question, a summary of the relevant issues,
  - vi. if the amount of the plaintiff's claim is in question, a summary of the relevant issues,
  - vii. if evidence is to be presented at trial, a list of witnesses to be called,
  - viii. an estimate of the time that will be required for trial of the action or consolidated actions,
  - ix. if there is more than one action respecting the same land, an agreement as to which plaintiff shall have carriage of the consolidated actions, and
  - x. a statement indicating that all parties have signed the statement of settlement or, if that is not the case, indicating which parties have done so and the other parties' reasons for not signing.

**Filing of statement of settlement**

14. The party who conducted the settlement meeting shall file the statement of settlement within ten days after the settlement meeting.

**Powers of court at hearing of motion**

15. At the hearing of the motion referred to in paragraph 12, the court may exercise the powers set out in subsection 63 (5) of the Act and may,
- i. if there is more than one action respecting the same land, consolidate the actions and give carriage of the consolidated action in accordance with the statement of settlement,
  - ii. fix a date, which shall be at least ninety days but not more than 120 days after the hearing of the motion, for the trial of the action or any issue in the action,
  - iii. if the only outstanding issue is the amount of the plaintiff's claim, give judgment and direct a reference to a judge or master to take accounts and report on that issue,
  - iv. direct that the plaintiff having carriage of the action file before the trial date a copy of an abstract of title and sheriff's certificate (in the case of premises subject to the *Registry Act*) or of a certificate of title (in the case of premises subject to the *Land Titles Act*), dated no more than ten days before the trial date or, if the lien does not attach to the premises, a statement by the owner showing the identity of persons with preserved or perfected liens against the premises,
  - v. direct that examinations for discovery be held in respect of any contested issues set out in the statement of settlement, and
  - vi. direct that a brief of the documents referred to in the statement of settlement be filed at least fifteen days before the trial date.

**Exception, no parties entitled to notice of settlement meeting**

16. If there are no parties who are entitled to notice of a settlement meeting under subsection 62 (2) of the Act, the plaintiff, upon filing an affidavit to that effect with the registrar, may move immediately for summary judgment without holding a settlement meeting or making the motion referred to in paragraph 12.

**Refusal of leave for motion**

17. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 18, immediately and regardless of the outcome of the proceeding.

**Costs**

18. When a party is required to pay costs under paragraph 17 or 26, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$100. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Examinations for discovery**

19. No party may conduct examinations for discovery lasting more than three hours in total without leave. The motion for leave may itself be made without leave.

**Notices of readiness**

20. It is not necessary to serve notices of readiness for trial.

**Record**

21. The trial record shall contain a copy of the statement of settlement and of the order made under paragraph 15.



**Notice of trial**

22. The plaintiff having carriage of the action shall serve a notice in accordance with subsection 62 (4) of the Act.

**Listing for trial**

23. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Fast lien track**

24. As soon as the action is listed for trial, the registrar shall place it on the fast lien track list.

**Trial**

25. The trial shall begin within ten months after Day 1.

**General penalty for lateness**

26. If a party who is required by this rule to take a step within a specific time fails to do so and no other penalty is provided for the default, the registrar shall (except in the case of a defendant against whom pleadings have been noted closed) immediately send the party a notice requiring the party to appear before the court and request an extension of time. If the court grants the extension, the party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 18, immediately and regardless of the outcome of the proceeding. If the party fails to appear or if the court refuses the extension, the action shall be dismissed or the party's pleadings struck out, as the case may be. O. Reg. 443/90, r. 9.

**COMPLEX TRACK**

- 10.—(1) An action may be placed on the complex track only by means of a transfer under subrule 11 (4).
- (2) The following provisions apply to an action on the complex track:

**Case management judge**

1. A case management judge shall be assigned to the action, to monitor its progress and to make any orders and give any directions that are necessary.

**Motions**

2. The case management judge shall hear all motions in the action unless he or she is unavailable and the court gives a party leave to make a motion to another judge.

**Refusal of leave for motion**

3. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 4, immediately and regardless of the outcome of the proceeding.

**Costs**

4. When a party is required to pay costs under paragraph 3, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$100 (in the case of a construction lien action) or \$200 in any other case. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in the relevant amount.

**Status hearing in lien action**

5. In the case of a construction lien action, if the action is not set down for trial within eighteen months after Day 1, the case management judge shall hold an informal status hearing.

**Complex track list**

6. As soon as the action is listed for trial, the registrar shall place it on the complex track list.

**Date and time of pre-trial conference**

7. The case management judge shall fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs.

**Pre-trial conference**

8. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

9. The case management judge shall preside at the pre-trial conference and shall at that time fix a trial date, which shall be at least sixty days after the pre-trial conference.

**Additional pre-trial conference**

10. After the completion of the pre-trial conference, any party may, on requisition, have an additional pre-trial conference conducted by a different judge. Further pre-trial conferences require an order of the court.

**Trial**

11. The trial shall begin within three years of Day 1. O. Reg. 443/90. r. 10.

**TRANSFERS FROM ONE TRACK TO ANOTHER****Transfers between fast and standard tracks**

11.—(1) The court may transfer an action from the fast track to the standard track or from the standard track to the fast track on a party's motion, made with leave after the close of pleadings.

**Timely transfers from fast to standard track**

(2) Leave is not required for a motion to transfer an action from the fast track to the standard track if notice of the motion is given within ten days after the close of pleadings.

**Transfers from family to fast track**

(3) The court may transfer an action from the family track to the fast track on a party's motion, made with leave after the close of pleadings.

**Transfers to complex track**

(4) An action may be placed on the complex track only by a transfer from the fast track, the standard track, the family track or the fast lien track ordered, on a party's motion, by a judge designated by the regional senior judge.

(5) The motion may be made at the hearing of the motion referred to in paragraph 12 of subrule 9 (2) (in the case of a construction lien action) or after the close of pleadings (in any other case).

(6) The motion does not require leave or supporting written material and may be heard by means of a conference telephone call.

**Form of order for transfer to complex track**

(7) The order transferring the action to the complex track shall be a case management order in Form 6 (complex track).

**Transfers from complex track**

(8) The case management judge assigned to an action on the complex track may at any time, on a party's motion or on his or her own initiative, transfer the action to the standard track, the fast track, the family track or the fast lien track.

**Content of order for transfer other than to complex track**

(9) An order transferring an action from one track to another, other than an order transferring it to the complex track, shall be a case management order reciting the appropriate provisions of rule 6 (fast track), rule 7 (standard track), rule 8 (family track) or rule 9 (fast lien track), as the case may be, directions being given and time limits being modified as may be necessary. O. Reg. 443/90. r. 11.

**COUNTERCLAIMS, CROSSCLAIMS AND THIRD PARTY CLAIMS****Track for counterclaims, crossclaims and third party claims**

12.—(1) A counterclaim, crossclaim or third party claim shall be on the same track as the main action and, except for the delivery of pleadings, shall follow the same timetable.

**Postponement of pre-trial conference and trial in main action**

(2) If a counterclaim is made against a person who is not already a party to the main action or, if there is a third party claim, the pre-trial conference and trial in the main action shall be postponed in order that they may be held at the same time as the pre-trial conference and trial in the counterclaim or third party claim, unless the court orders otherwise.

**Defence of main action by third party**

(3) A third party who defends in the main action may do so within the time periods for defending the third party claim. O. Reg. 443/90. r. 12.

**FAMILY VARIATION APPLICATIONS MADE ON OR AFTER SEPTEMBER 4, 1990****Scope**

13.—(1) This rule applies to applications made on or after the 4th day of September, 1990 for variation of final orders or judgments for support, custody or access.

**Material to be filed**

(2) When a notice of application is issued, the applicant shall file any supporting material relevant to the determination of the application.

**Date for hearing**

(3) When the notice of application is issued, a hearing date, which shall be at least forty-five days and not more than sixty days after Day 1, shall be obtained from the registrar.

(4) If the respondent is to be served with the notice of application outside Ontario, the hearing date shall be at least sixty-five days and not more than eighty days after Day 1 (in the case of service elsewhere in Canada or in the United States) or at least eight-five days and not more than 100 days after Day 1 (in the case of service anywhere else).

**Case management order**

(5) When the notice of application is issued, the court shall make a case management order in Form 7 (family variation track).

**Special provisions**

(6) The following provisions apply to an application on the family variation track:

**Notice of application**

1. The applicant shall serve the notice of application, together with the case management order, the financial statement, if required, and all other documents to be used at the hearing in support of the application, within ten days after Day 1, and file them with proof of service within seventeen days after Day 1.

**Notice of appearance**

2. The respondent shall serve the notice of appearance, affidavit in opposition to the application and all other required documents within ten days after the date of service of the notice of application and shall file them with proof of service within fifteen days after that date. After that time, the respondent may file the documents only with leave.

**Service outside Ontario**

3. If the respondent is served with the notice of application outside Ontario, the periods for serving and filing the notice of appearance are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the time for the hearing of the application shall be adjusted accordingly.

**Documents for settlement conference**

4. Before the hearing date set out in the notice of application, every party shall file a one-page summary of the issues and a copy of the documents supporting the party's financial statement, if any.

**Failure to file documents**

5. If a party does not file the summary and supporting documents by the hearing date, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 6, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

6. When a party is required to pay costs under paragraph 5 or 11, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No examinations, cross-examinations or motions without leave before settlement conference**

7. Before the hearing date, no party may examine, cross-examine or make a motion without leave.

**Settlement conference**

8. On the hearing date set out in the notice of application, there shall be a settlement conference presided over by a judge, a master or a person designated by the regional senior judge.
9. All parties, as well as counsel, shall attend the settlement conference, unless an order excusing a party is made before the hearing date.

**Date and time of pre-trial conference**

10. If no settlement is achieved at the settlement conference, the person presiding shall fix the date and time for a pre-trial conference (if he or she is of the opinion that a pre-trial conference is necessary), a date for the hearing of the application on the merits and a date after which no party may examine, cross-examine or make motions without leave. The person presiding may give all necessary directions, including a direction for the immediate trial of an issue.



**Failure to comply with direction**

11. If a party fails to comply with a direction given at the settlement conference, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 6, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**No further examinations, cross-examinations or motions without leave**

12. After the relevant date fixed under paragraph 10, a party may examine, cross-examine or make motions only with the leave of the person who presided over the settlement conference.

**Refusal of leave**

13. If leave for a motion requiring leave is refused, the moving party shall, unless the person who presided orders otherwise, pay costs in an amount determined in accordance with paragraph 14, immediately and regardless of the outcome of the proceeding.

**Costs**

14. When a party is required to pay costs under paragraph 13, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Pre-trial conference**

15. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Who shall preside**

16. The person who presided at the settlement conference shall also preside at the pre-trial conference, if any, but not at the hearing of the application.

**Hearing on the merits**

17. The hearing of the application shall begin within six months of Day 1. O. Reg. 443/90. r. 13.

**EXISTING ACTIONS****ACTIONS COMMENCED BEFORE JANUARY 1, 1985**

14. The following provisions apply to an action commenced before the 1st day of January, 1985:

**Notices of readiness**

1. It is not necessary to serve notices of readiness for trial.

**Case management judge, list**

2. As soon as the action is listed for trial, a case management judge shall be assigned to it and the registrar shall place it on a list of actions commenced before the 1st day of January, 1985.

**Date and time of pre-trial conference**

3. The case management judge shall fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs.

**Failure to file pre-trial conference brief**

4. If a party does not file a pre-trial conference brief by the date fixed by the judge, the registrar shall, unless the case management judge orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 5, immediately and regardless of the outcome of the proceedings, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

5. When a party is required to pay costs under paragraph 4, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Pre-trial conference**

6. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference. The motion for such an order does not require supporting written material and may be heard by means of a conference telephone call.
7. At the pre-trial conference, the presiding judge may give any necessary directions and may fix a trial date.

**Special ready list**

8. If the judge presiding at the pre-trial conference does not fix a trial date, the action shall be placed on a ready list reserved for actions commenced before the 1st day of January, 1985. After one month has expired from the date of the pre-trial conference, the action may be called for trial at any time, without notice. O. Reg. 443/90, r. 14.

**ACTIONS COMMENCED ON OR AFTER JANUARY 1, 1985 AND BEFORE SEPTEMBER 4, 1990**

15. The following provisions apply to an action commenced on or after the 1st day of January, 1985 and before the 4th day of September, 1990:

**Notices of readiness**

1. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

2. If the action was commenced on or before the 31st day of December, 1989, the plaintiff shall serve and file the record and list the action for trial within thirty days of the close of pleadings or on or before the 5th day of November, 1990, whichever is later.
3. If the action was commenced after the 31st day of December, 1989 and before the 4th day of September, 1990, the plaintiff shall serve and file the record and list the action for trial on or before the 31st day of December, 1990.

**Default**

4. If the plaintiff does not comply with paragraph 2 or 3, as the case may be, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the plaintiff does not cure the default within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Appropriate list**

5. As soon as the action is listed for trial, the registrar shall place it on the standard track list, the family track list or the fast lien track list, or on the complex track list if a judge designated by the regional senior judge so orders on a party's motion. The motion does not require leave or supporting written material and may be heard by means of a conference telephone call.

**Date and time of case management conference**

6. The registrar shall also fix a date and time for a case management conference and may order that the conference be held by means of a conference telephone call.

**Case management conference**

7. The judge presiding at the case management conference shall fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs.

Action continues on appropriate track

8. Paragraphs 10 to 17 of rule 7 (standard track), paragraphs 19 to 26 of rule 8 (family track), paragraph 10 of rule 9 (fast lien track) or paragraphs 1 to 10 of subrule 10 (2) (complex track), as the case may be, apply to the action with necessary modifications. O. Reg. 443/90, r. 15.

Short title

16. These rules may be cited as the Essex Civil Case Management Rules.

Commencement

- 17.—(1) These rules come into force on the 4th day of September, 1990.

Two-year period

- (2) These rules are revoked on the 7th day of September, 1992.

FORM 1

CASE INFORMATION STATEMENT

(This space for court personnel only)

Ontario Court (General Division)  
County of Essex

File number .....

Date originating process issued ....., 199.....

Plaintiff(s) *(insert name(s))*

Solicitor *(insert name, address, telephone number, fax number and firm name)*

Defendant(s) *(insert name(s))*

Solicitor *(same information as for plaintiff's solicitor, if known)*

Category of case *(check as many as apply):*

TORTS	CONTRACTS	FAMILY	OTHER
Motor vehicle	Real property	Divorce	Bankruptcy
Other negligence	Construction lien	Property	Landlord/tenant
Professional malpractice	Collection	Support	Breach of trust
	Wrongful dismissal	Custody	Estates
	Other breach of contract	Other	Other

Track selected *(check one):*

- Fast
- Standard
- Family
- Fast lien

Proposed pre-trial conference date ..... , 199.....

Proposed trial date ..... , 199.....

Is this a jury case? Yes..... No.....

Other information:

Date ..... Signature of plaintiff's solicitor

O. Reg. 443/90, Form 1.

**FORM 2**

**CASE MANAGEMENT ORDER  
(FAST TRACK)**

*(General heading)*

*(Court seal)*

**CASE MANAGEMENT ORDER  
(FAST TRACK)**

**IT IS ORDERED THAT:**

**Statement of claim**

1. The plaintiff shall serve the statement of claim, together with the plaintiff's affidavit of documents, the case information statement and the case management order, on or before the *(insert date thirty days after Day 1)*, and file them with proof of service on or before the *(insert date forty days after Day 1)*. Copies of the documents referred to in Schedule A of the plaintiff's affidavit of documents shall be served with the statement of claim and other documents, but shall not be filed.

**Default**

2. If the plaintiff does not comply with paragraph 1 and remains in default on the *(insert date forty-five days after Day 1)*, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Statement of defence**

3. The defendant shall serve the statement of defence, together with the defendant's affidavit of documents, within thirty days after the date of service of the statement of claim, and shall file them with proof of service within forty days after that date. Copies of the documents referred to in Schedule A of the defendant's affidavit of documents shall be served with the statement of defence and affidavit of documents, but shall not be filed.

**Default**

4. On the forty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.



**Service outside Ontario**

5. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

6. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

7. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

**Leave for motions**

8. No motion may be made without leave, except a motion referred to in paragraph 11 (examinations for discovery) of this case management order or subrule 11 (2) (timely transfers) of the Essex Civil Case Management Rules.

**Refusal of leave**

9. If leave for a motion is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 10, immediately and regardless of the outcome of the proceeding.

**Costs**

10. When a party is required to pay costs under paragraph 9, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Examinations for discovery**

11. No party may conduct examinations for discovery lasting more than three hours in total without leave. The motion for leave may itself be made without leave.

**Notices of readiness**

12. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

13. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Date and time of pre-trial conference, fast track list**

14. As soon as the action is listed for trial, the registrar shall place it on the fast track list, fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for filing pre-trial conference briefs shall be at least fourteen days earlier than the day fixed for the pre-trial conference.

**Failure to file pre-trial conference brief**

- 15. If a party does not file a pre-trial conference brief by the date fixed by the registrar, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 16, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

- 16. When a party is required to pay costs under paragraph 15, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No further examinations for discovery without leave**

- 17. After the date fixed for the pre-trial conference, no party may examine for discovery without leave.

**Pre-trial conference**

- 18. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

- 19. At the pre-trial conference, the judge shall fix a trial date.

**Trial**

- 20. The trial shall begin on or before the *(insert date six months after Day 1)*.

Date ..... Signed by .....  
(Registrar)  
  
Address of .....  
court office .....  
.....  
.....

O. Reg. 443/90, Form 2.

**FORM 3**

**CASE MANAGEMENT ORDER  
(STANDARD TRACK)**

*(General heading)*

*(Court seal)*

**CASE MANAGEMENT ORDER  
(STANDARD TRACK)**

**IT IS ORDERED THAT:**

**Statement of claim**

- 1. The plaintiff shall serve the statement of claim, together with the case information statement and this case management order, on or before the *(insert date thirty days after Day 1)*, and file them with proof of service on or before the *(insert date forty days after Day 1)*.

**Default**

2. If the plaintiff does not comply with paragraph 1 and remains in default on the (*insert date forty-five days after Day 1*), the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Statement of defence**

3. The defendant shall serve the statement of defence, within thirty days after the date of service of the statement of claim, and shall file it with proof of service within forty days after that date.

**Default**

4. On the forty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.

**Service outside Ontario**

5. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

6. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

7. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

**Notices of readiness**

8. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

9. The plaintiff shall serve and file the record and list the action for trial within seventy-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Date and time of pre-trial conference, standard track list**

10. As soon as the action is listed for trial, the registrar shall place it on the standard track list, fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for the pre-trial conference shall be at least eight months after the day the action is listed for trial (unless an earlier date is available and the parties consent), and the date fixed for filing pre-trial conference briefs shall be at least thirty days before the day fixed for the pre-trial conference.

**Failure to file pre-trial conference brief**

11. If a party does not file a pre-trial conference brief by the date fixed by the registrar, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 12, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

12. When a party is required to pay costs under paragraph 11, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No further examinations for discovery without leave**

13. After the date fixed for the pre-trial conference, no party may examine for discovery or make a motion without leave.

**Refusal of leave**

14. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding.

**Costs**

15. When a party is required to pay costs under paragraph 14, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Pre-trial conference**

16. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

17. At the pre-trial conference, the judge shall fix a trial date, which shall be at least thirty days after the pre-trial conference.

**Trial**

18. The trial shall begin on or before the *(insert date eighteen months after Day 1)*.

Date .....

Signed by .....

(Registrar)

Address of .....  
court office .....

.....

.....

**FORM 4**

O. Reg. 443/90, Form 3.

**CASE MANAGEMENT ORDER  
(FAMILY TRACK)**

*(General heading)*

*(Court seal)*

**CASE MANAGEMENT ORDER  
(FAMILY TRACK)**

**IT IS ORDERED THAT:**

**Date of management conference**

1. The management conference shall take place on the *(insert date at least ninety days but not more than 120 days after Day 1)*.



**Petition or statement of claim**

2. The plaintiff shall serve the petition or statement of claim, together with the financial statement if required, the case information statement and this case management order, on or before the (*insert date thirty days after Day 1*), and file them with proof of service on or before the (*insert date forty days after Day 1*).

**Default**

3. If the plaintiff does not comply with paragraph 2 and remains in default on the (*insert date forty-five days after Day 1*), the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Answer or statement of defence**

4. The defendant shall serve the answer or statement of defence, together with the financial statement if required, within thirty days after the date of service of the petition or statement of claim, and shall file them with proof of service within forty days after that date.

**Default**

5. On the forty-fifth day after the date of service of the petition or statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 4.

**Service outside Ontario**

6. If the defendant is served with the petition or statement of claim outside Ontario, the periods for serving and filing the answer or statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

**Notice of action, notice of intent to defend**

7. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

**Reply**

8. The reply, if any, shall be delivered within twenty days after delivery of the answer, answer and counterclaim or statement of defence. No reply shall be delivered after that time without leave of the court.

**Notices of readiness**

9. It is not necessary to serve notices of readiness for trial.

**Listing for trial**

10. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Family track**

11. As soon as the action is listed for trial, the registrar shall place it on the family track list.

**Rescheduling management conference**

12. The court may, on a party's motion, reschedule the management conference for an earlier date. The motion does not require supporting written material and may be heard by means of a conference telephone call.

**Documents for management conference**

13. At least seven days before the date of the management conference, every party shall serve on every other party and file with proof of service a one-page summary of the issues in the action, a net family property statement, if required, with copies of documents substantiating the calculations, and a list of documents still to be obtained.

**Failure to file documents**

14. If a party does not file the documents within the prescribed time period, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Costs**

15. When a party is required to pay costs under paragraph 14, 18 or 20, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Management conference**

16. All parties, as well as counsel, shall attend the management conference, unless an order excusing a party is made before the date fixed for the management conference.
17. A judge, a master or a person designated by the regional senior judge shall preside at the management conference, shall discuss with the parties the possibility of settlement and may give all necessary directions, including a direction for the immediate trial of an issue and the direction of a reference on an issue.

**Failure to comply with direction**

18. If a party fails to comply with a direction given at the management conference, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**Date and time of pre-trial conference**

19. At the management conference, the person presiding shall also fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs. The date fixed for filing pre-trial conference briefs shall be at least thirty days earlier than the date fixed for the pre-trial conference.

**Failure to file pre-trial conference brief**

20. If a party does not file a pre-trial conference brief by the date fixed under paragraph 19, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 15, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**No further examinations for discovery or motions without leave**

21. After the date fixed for the pre-trial conference, no party may examine for discovery or make a motion without leave.

**Refusal of leave**

22. If leave for motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 23, immediately and regardless of the outcome of the proceeding.

Costs

23. When a party is required to pay costs under paragraph 22, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

Pre-trial conference

24. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

Who shall preside

25. The person who presided at the management conference shall also preside at the pre-trial conference.

Trial date

26. At the pre-trial conference, the person presiding shall fix a trial date, which shall be at least thirty days after the pre-trial conference.

Trial

27. The trial shall begin on or before the *(insert date one year after Day 1)*.

Date ..... Signed by .....  
..... (Registrar)  
  
Address of .....  
court office .....  
.....  
.....  
O. Reg. 443/90, Form 4.

FORM 5  
CASE MANAGEMENT ORDER  
(FAST LIEN TRACK)  
  
*(General heading)*

*(Court seal)*

CASE MANAGEMENT ORDER  
(FAST LIEN TRACK)

IT IS ORDERED THAT:

Statement of claim

1. The plaintiff shall serve the statement of claim, together with the plaintiff's affidavit of documents, the case information statement and this case management order, on or before the *(insert date ninety days after Day 1)*, in accordance with subsection 55 (2) of the *Construction Lien Act, 1983* ("the Act"), and shall file them with proof of service on or before the *(insert date 100 days after Day 1)*. The documents referred to in Schedule A of the plaintiff's affidavit of documents shall include the claim for lien (as registered, if the lien attaches to the premises) and affidavit of verification, and shall be served with the statement of claim and other documents, but shall not be filed.

Default

2. If the plaintiff does not comply with paragraph 1 and remains in default on the *(insert date 105 days after Day 1)*, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not



cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence. However, unless the court orders otherwise, the registration of the claim for lien and of any certificate of action in respect of the lien shall not be vacated until ten days have elapsed after the order of dismissal is served on the plaintiff.

#### **Statement of defence**

3. The defendant shall deliver the statement of defence, together with the defendant's affidavit of documents, within twenty days after the date of service of the statement of claim, in accordance with subsection 56 (1) of the Act. Copies of the documents referred to in Schedule A of the defendant's affidavit of documents shall be served with the statement of defence and affidavit of documents, but shall not be filed.

#### **Default**

4. On the twenty-fifth day after the date of service of the statement of claim, the registrar shall note in default a defendant who has not yet complied with paragraph 3.

#### **Motion for judgment**

5. The plaintiff shall move for judgment within sixty days after the defendant is noted in default. Affidavit evidence may be received at the hearing of the motion.

#### **Default**

6. If the plaintiff does not comply with paragraph 5, the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action. However, unless the court orders otherwise, the registration of the claim for lien and of any certificate of action in respect of the lien shall not be vacated until ten days have elapsed after the order of dismissal is served on the plaintiff.

#### **Service outside Ontario**

7. If the defendant is served with the statement of claim outside Ontario, the periods for serving and filing the statement of defence are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the other time periods applicable to the action shall be adjusted accordingly.

#### **Notice of action, notice of intent to defend**

8. The time periods applicable to the action are not extended if a notice of action or notice of intent to defend is used.

#### **Reply**

9. The reply, if any, shall be delivered within ten days after delivery of the statement of defence. No reply shall be delivered after that time without leave of the court.

#### **Settlement meeting obligatory**

10. A settlement meeting shall be held in accordance with section 63 of the Act on a day chosen by the plaintiff, at least thirty days but no more than fifty days after the date of service of the statement of claim. It is not necessary to obtain an order for the holding of the meeting under subsection 62 (1) of the Act.

#### **Notice**

11. The plaintiff shall serve notice of the settlement meeting in accordance with subsection 62 (2) of the Act and shall file proof of service within ten days after service. A copy of this case management order shall be served with the notice of the settlement meeting.

#### **Date for hearing of motion**

12. When proof of service of the notice of settlement meeting is filed, the registrar shall fix a date that is at least fifteen days but no more than sixty days after the date of the settlement meeting, for the hear-



ing of a motion before a judge for the purposes set out in subsection 63 (5) of the Act. The registrar shall notify the plaintiff of the date and the plaintiff shall serve the notice of motion in accordance with subsection 62 (2) of the Act and shall file proof of service.

#### Statement of settlement

13. If the settlement meeting does not result in a complete settlement of the action, the statement of settlement referred to in subsection 63 (3) of the Act shall, in addition to summarizing any issues of fact and law that have been settled by the parties, contain:
  - i. the names of the lien claimants,
  - ii. if entitlement to a lien or perfection or preservation of a lien are in question, a summary of the relevant issues,
  - iii. a statement of the priorities of the lien claimants and encumbrancers or, if there is no agreement as to priorities, a summary of the relevant issues,
  - iv. a summary of any other issues of fact and law to be determined at trial,
  - v. a statement identifying the documents agreed on for filing at trial and, if the admissibility or authenticity of a document is in question, a summary of the relevant issues,
  - vi. if the amount of the plaintiff's claim is in question, a summary of the relevant issues,
  - vii. if evidence is to be presented at trial, a list of witnesses to be called,
  - viii. an estimate of the time that will be required for trial of the action or consolidated actions,
  - ix. if there is more than one action respecting the same land, an agreement as to which plaintiff shall have carriage of the consolidated actions, and
  - x. a statement indicating that all parties have signed the statement of settlement or, if that is not the case, indicating which parties have done so and the other parties' reasons for not signing.

#### Filing of statement of settlement

14. The party who conducted the settlement meeting shall file the statement of settlement within ten days after the settlement meeting.

#### Powers of court at hearing of motion

15. At the hearing of the motion referred to in paragraph 12, the court may exercise the powers set out in subsection 63 (5) of the Act and may,
  - i. if there is more than one action respecting the same land, consolidate the actions and give carriage of the consolidated action in accordance with the statement of settlement,
  - ii. fix a date, which shall be at least ninety days but not more than 120 days after the hearing of the motion, for the trial of action or any issue in the action,
  - iii. if the only outstanding issue is the amount of the plaintiff's claim, give judgment and direct a reference to a judge or master to take accounts and report on that issue,
  - iv. direct that the plaintiff having carriage of the action file before the trial date a copy of an abstract of title and sheriff's certificate (in the case of premises subject to the *Registry Act*) or of a certificate of title (in the case of premises subject to the *Land Titles Act*), dated no more than ten days before the trial date or, if the lien does not attach to the premises, a statement by the owner showing the identity of persons with preserved or perfected liens against the premises,
  - v. direct that examinations for discovery be held in respect of any contested issues set out in the statement of settlement, and

- vi. direct that a brief of the documents referred to in the statement of settlement be filed at least fifteen days before the trial date.

**Exception, no parties entitled to notice of settlement meeting**

16. If there are no parties who are entitled to notice of a settlement meeting under subsection 62 (2) of the Act, the plaintiff, upon filing an affidavit to that effect with the registrar, may move immediately for summary judgment without holding a settlement meeting or making the motion referred to in paragraph 12.

**Refusal of leave for motion**

17. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 18, immediately and regardless of the outcome of the proceeding.

**Costs**

18. When a party is required to pay costs under paragraph 17 or 26, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$100. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**Examinations for discovery**

19. No party may conduct examinations for discovery lasting more than three hours in total without leave. The motion for leave may itself be made without leave.

**Notices of readiness**

20. It is not necessary to serve notices of readiness for trial.

**Record**

21. The trial record shall contain a copy of the statement of settlement and of the order made under paragraph 15.

**Notice of trial**

22. The plaintiff having carriage of the trial shall serve a notice in accordance with subsection 62 (4) of the Act.

**Listing for trial**

23. The plaintiff shall serve and file the record and list the action for trial within forty-five days after the close of pleadings, failing which the registrar shall immediately serve on the plaintiff a notice that the action will be dismissed if the default is not cured within fifteen days after service of the notice. If the plaintiff does not cure the default within that time, the registrar shall dismiss the action, with costs payable by the plaintiff to all defendants who have delivered a defence.

**Fast lien track**

24. As soon as the action is listed for trial, the registrar shall place it on the fast lien track list.

**Trial**

25. The trial shall begin on or before the (*insert date ten months after Day 1*).

**General penalty for lateness**

26. If a party who is required by this order to take a step within a specific time fails to do so and no other penalty is provided for the default, the registrar shall (except in the case of a defendant against whom pleadings have been noted closed) immediately send the party a notice requiring the party to appear before the court and request an extension of time. If the court grants the extension, the party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph

18, immediately and regardless of the outcome of the proceeding. If the party fails to appear or if the court refuses the extension, the action shall be dismissed or the party's pleadings struck out, as the case may be.

Date ..... Signed by .....  
(Registrar)  
  
Address of .....  
court office .....  
.....  
.....  
O. Reg. 443/90, Form 5.

FORM 6

CASE MANAGEMENT ORDER  
(COMPLEX TRACK)

(General heading)

(Court seal)

CASE MANAGEMENT ORDER  
(COMPLEX TRACK)

IT IS ORDERED THAT:

Transfer to complex track

1. This action is transferred to the complex track.

Case management judge

2. ....(name of judge) is assigned to the action as case management judge, to monitor its progress and to make any orders and give directions that are necessary.

Motions

3. The case management judge shall hear all motions in the action unless he or she is unavailable and the court gives a party leave to make a motion to another judge.

Refusal of leave for motion

4. If leave for a motion requiring leave is refused, the moving party shall, unless the court orders otherwise, pay costs in an amount determined in accordance with paragraph 5, immediately and regardless of the outcome of the proceeding.

Costs

5. When a party is required to pay costs under paragraph 4, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$100 (in the case of a construction lien action) or \$200 in any other case. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in the relevant amount.

Status hearing in lien action

6. In the case of a construction lien action, if the action is not set down for trial within eighteen months after Day 1 the case management judge shall hold an informal status hearing.

Complex track list

7. As soon as the action is listed for trial, the registrar shall place it on the complex track list.

**Date and time of pre-trial conference**

8. The case management judge shall fix the date and time for the pre-trial conference and fix a date by which all parties shall file pre-trial conference briefs.

**Pre-trial conference**

9. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

**Trial date**

10. The case management judge shall preside at the pre-trial conference and shall at that time fix a trial date, which shall be at least sixty days after the pre-trial conference.

**Additional pre-trial conference**

11. After the completion of the pre-trial conference, any party may, on requisition, have an additional pre-trial conference conducted by a different judge. Further pre-trial conferences require an order of the court.

**Trial**

12. The trial shall begin on or before the *(insert date three years after Day 1)*.

Date .....	Signed by ..... (Registrar)
	Address of court office ..... ..... .....

O. Reg. 443/90, Form 6.

**FORM 7**

**CASE MANAGEMENT ORDER  
(FAMILY VARIATION TRACK)**

*(General heading)*

*(Court seal)*

**CASE MANAGEMENT ORDER  
(FAMILY VARIATION TRACK)**

**Notice of application**

1. The applicant shall serve the notice of application, together with this case management order, the financial statement, if required, and all other documents to be used at the hearing in support of the application, on or before the *(insert date ten days after Day 1)*, and file them with proof of service on or before the *(insert date seventeen days after Day 1)*.

**Notice of appearance**

2. The respondent shall serve the notice of appearance, affidavit in response and all other required documents within ten days after the date of service of the notice of application, and shall file them with proof of service within fifteen days after that date. After that time, the respondent may file the documents only with leave.



**Service outside Ontario**

3. If the respondent is served with the notice of application outside Ontario, the periods for serving and filing the notice of appearance are extended (by twenty days, in the case of service elsewhere in Canada or in the United States, or by forty days, in the case of service anywhere else) and the time for the hearing of the application shall be adjusted accordingly.

**Documents for settlement conference**

4. On or before the hearing date set out in the notice of application, every party shall file a one-page summary of the issues and a copy of the documents supporting the party's financial statement, if any.

**Failure to file documents**

5. If a party does not file the summary and supporting documents by the hearing date, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 6, immediately and regardless of the outcome of the proceeding, and fixing the date on which the party shall appear with counsel to explain the default to the court.

**Costs**

6. When a party is required to pay costs under paragraph 5 or 11, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$300. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

**No examinations, cross-examinations or motions without leave before settlement conference**

7. Before the hearing date, no party may examine, cross-examine or make a motion without leave.

**Settlement conference**

8. On the hearing date set out in the notice of application, there shall be a settlement conference presided over by a judge, a master or a person designated by the regional senior judge.
9. All parties, as well as counsel, shall attend the settlement conference, unless an order excusing a party is made before the hearing date.

**Date and time of pre-trial conference**

10. If no settlement is achieved at the settlement conference, the person presiding shall fix the date and time for a pre-trial conference (if he or she is of the opinion that a pre-trial conference is necessary), a date for the hearing of the application on the merits and a date after which no party may examine, cross-examine or make motions without leave. The person presiding may give all necessary directions, including a direction for the immediate trial of an issue.

**Failure to comply with direction**

11. If a party fails to comply with a direction given at the settlement conference, the registrar shall, unless the court orders otherwise, make an order requiring the party to pay costs in an amount determined in accordance with paragraph 6, immediately and regardless of the outcome of the proceeding, and fixing a date on which the party shall appear with counsel to explain the default to the court.

**No further examinations, cross-examinations or motions without leave**

12. After the relevant date fixed under paragraph 10, a party may examine, cross-examine or make motions only with the leave of the person who presided over the settlement conference.

**Refusal of leave**

13. If leave for a motion requiring leave is refused, the moving party shall, unless the person who presided orders otherwise, pay costs in an amount determined in accordance with paragraph 14, immediately and regardless of the outcome of the proceeding.

Costs

14. When a party is required to pay costs under paragraph 13, every opposing party who is separately represented by counsel is entitled to costs in the amount of \$200. Two or more opposing parties who are represented by the same counsel are jointly entitled to costs in that amount.

Pre-trial conference

15. All parties, as well as counsel, shall attend the pre-trial conference, unless an order excusing a party is made before the date fixed for the pre-trial conference.

Who shall preside

16. The person who presided at the settlement conference shall also preside at the pre-trial conference, if any, but not at the hearing of the application.

Hearing on the merits

17. The hearing of the application shall begin on or before the (*insert date six months after Day 1*).

Date .....

Signed by .....  
(Registrar)

Address of .....  
court office .....  
.....

O. Reg. 443/90, Form 7.

LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

Règl. de l'Ont. 443/90  
Règles de gestion des causes civiles d'Essex  
pris—le 20 juin 1990  
approuvé—le 27 juillet 1990  
déposé—le 1<sup>er</sup> août 1990

RÈGLEMENT PRIS EN APPLICATION DE LA  
LOI DE 1984 SUR LES TRIBUNAUX JUDICIAIRES

RÈGLES DE GESTION DES CAUSES CIVILES D'ESSEX

TABLE DES MATIÈRES

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## CHAMP D'APPLICATION

- 1 (1) Les présentes règles s'appliquent aux instances introduites dans le comté d'Essex.

### Exception : requêtes

(2) Sauf disposition contraire du paragraphe 13 (1) (voie des requêtes en modification d'ordonnances en droit de la famille), les présentes règles ne s'appliquent pas aux requêtes, même si celles-ci doivent être considérées comme des actions aux termes du paragraphe 38.11 (2) ou (3) des Règles de procédure civile. Règl. de l'Ont. 443/90, règle 1.

## RÈGLES DE PROCÉDURE CIVILE

2 Les Règles de procédure civile s'appliquent également aux instances auxquelles s'appliquent les présentes règles. Toutefois, en cas d'incompatibilité, les présentes règles l'emportent. Règl. de l'Ont. 443/90, règle 2.

## INTERPRÉTATION

3 (1) Les présentes règles doivent recevoir une interprétation large afin de garantir la résolution équitable sur le fond, de la façon la plus expéditive et la moins onéreuse, des instances auxquelles elles s'appliquent.

### Silence des règles

(2) En cas de silence des présentes règles, la pratique applicable est déterminée par analogie avec celles-ci.

### Dispense d'observation

(3) Le tribunal peut dispenser les parties de l'observation d'une disposition des présentes règles s'il estime cela juste et nécessaire. Règl. de l'Ont. 443/90, règle 3.

## DÉFINITIONS

- 4 Les définitions qui suivent s'appliquent aux présentes règles.

«défendeur» S'entend en outre de l'intimé dans une action en divorce. («defendant»)

«demandeur» S'entend en outre du requérant dans une action en divorce. («plaintiff»)

«jour premier» Le jour auquel une instance est introduite. («Day 1») Règl. de l'Ont. 443/90, règle 4.

## ACTIONS INTRODUITES LE 4 SEPTEMBRE 1990 OU À UNE DATE ULTÉRIEURE

## EXPOSÉ INFORMATIF DE CAUSE

5 (1) Lorsqu'une requête en divorce, une déclaration ou un avis d'action est délivré le 4 septembre 1990 ou à une date ultérieure, le demandeur dépose un exposé informatif de cause (formule 1) indiquant son choix entre :

- a) la voie des causes en droit de la famille, dans le cas d'une action intentée aux termes de la *Loi sur le divorce*, de la *Loi de 1986 sur le droit de la famille* ou de la *Loi portant réforme du droit de l'enfance*, d'une action relative à un contrat familial ou d'une action en fiducie induite des faits entre des conjoints ou des personnes qui ont cohabité;
- b) la voie accélérée des causes relatives aux privilèges, dans le cas d'une action sur un privilège dans l'industrie de la construction;
- c) la voie accélérée ou la voie ordinaire, dans le cas de toute autre action.

## Ordonnance de gestion de la cause

(2) Lorsque le demandeur dépose l'exposé informatif de cause, le tribunal rend une ordonnance de gestion de la cause selon la formule 2 (voie accélérée), la formule 3 (voie ordinaire), la formule 4 (voie des causes en droit de la famille) ou la formule 5 (voie accélérée des causes relatives aux privilèges). Règl. de l'Ont. 443/90, règle 5.

## VOIE ACCÉLÉRÉE

6 Les dispositions suivantes s'appliquent aux actions placées dans la voie accélérée :

## Déclaration

1. Le demandeur signifie la déclaration, ainsi que son affidavit de documents, l'exposé informatif de cause et l'ordonnance de gestion de la cause, dans les trente jours suivant le jour premier, et les dépose avec une preuve de leur signification dans les quarante jours suivant le jour premier. Des copies des documents visés à l'annexe A de l'affidavit de documents du demandeur sont signifiées avec la déclaration et les autres documents; cependant, elles ne doivent pas être déposées.

## Défaut

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le quarante-cinquième jour suivant le jour premier, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

## Exposé de la défense

3. Le défendeur signifie l'exposé de la défense, ainsi que son affidavit de documents, dans les trente jours suivant la date de signification de la déclaration, et les dépose avec une preuve de leur signification dans les quarante jours suivant cette date. Des copies des documents visés à l'annexe A de l'affidavit de documents du défendeur sont signifiées avec l'exposé de la défense et l'affidavit de documents; cependant, elles ne doivent pas être déposées.

## Défaut

4. Le quarante-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.

## Signification en dehors de l'Ontario

5. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.



**Avis d'action, avis d'intention de présenter une défense**

6. Les délais applicables à l'action ne sont pas prorogés dans le cas d'une recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

7. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Autorisation de présenter des motions**

8. Aucune motion ne peut être présentée sans autorisation, sauf s'il s'agit d'une motion visée à la disposition 11 (interrogatoires préalables) ou au paragraphe 11 (2) (transfert de causes en temps opportun).

**Refus d'autorisation**

9. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 10, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

10. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 9, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Interrogatoires préalables**

11. Nulle partie ne peut mener des interrogatoires préalables d'une durée de plus de trois heures sans autorisation. La motion en vue d'obtenir l'autorisation peut être présentée sans autorisation.

**Avis de mise en état**

12. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

13. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Date et heure de la conférence préparatoire au procès, rôle de la voie accélérée**

14. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie accélérée, fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins quatorze jours le jour fixé pour la tenue de la conférence.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

15. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée par le greffier, ce dernier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 16, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

16. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 15, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Aucun autre interrogatoire préalable possible sans autorisation**

17. Passé la date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable sans autorisation.

**Conférence préparatoire au procès**

18. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

**Date du procès**

19. Lors de la conférence préparatoire au procès, le juge fixe la date du procès.

**Procès**

20. Le procès débute dans les six mois suivant le jour premier. Règl. de l'Ont. 443/90, règle 6.

**VOIE ORDINAIRE**

- 7 Les dispositions suivantes s'appliquent aux actions placées dans la voie ordinaire :

**Déclaration**

1. Le demandeur signifie la déclaration, ainsi que l'exposé informatif de cause et l'ordonnance de gestion de la cause, dans les trente jours suivant le jour premier, et les dépose avec une preuve de leur signification dans les quarante jours suivant le jour premier.

**Défaut**

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le quarante-cinquième jour suivant le jour premier, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Exposé de la défense**

3. Le défendeur signifie l'exposé de la défense dans les trente jours suivant la date de signification de la déclaration, et le dépose avec une preuve de sa signification dans les quarante jours suivant cette date.

**Défaut**

4. Le quarante-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.

**Signification en dehors de l'Ontario**

5. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

**Avis d'action, avis d'intention de présenter une défense**

6. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

7. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Avis de mise en état**

8. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

9. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les soixante-quinze jours suivant la signification de l'avis suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Date et heure de la conférence préparatoire au procès, rôle de la voie ordinaire**

10. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie ordinaire, fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date fixée pour la tenue de la conférence suit d'au moins huit mois le jour où l'action est inscrite pour instruction (à moins qu'une date plus rapprochée ne soit possible et que les parties n'y consentent), et la date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins trente jours le jour fixé pour la tenue de celle-ci.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

11. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée par le greffier, ce dernier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 12, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

12. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 11, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Aucun autre interrogatoire préalable ou motion possible sans autorisation**

13. Passé le date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable ni présenter une motion sans autorisation.

**Refus d'autorisation**

14. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

15. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 14, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs



parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

#### **Conférence préparatoire au procès**

16. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

#### **Date du procès**

17. Lors de la conférence préparatoire au procès, le juge fixe la date du procès, qui suit d'au moins trente jours la conférence préparatoire au procès.

#### **Procès**

18. Le procès débute dans les dix-huit mois suivant le jour premier. Règl. de l'Ont. 443/90, règle 7.

### **VOIE DES CAUSES EN DROIT DE LA FAMILLE**

8 Les dispositions suivantes s'appliquent aux actions placées dans la voie des causes en droit de la famille :

#### **Date de la conférence de gestion**

1. Au moment où il rend l'ordonnance de gestion de la cause, le tribunal fixe une date pour la tenue de la conférence de gestion, laquelle doit suivre d'au moins quatre-vingt-dix jours et d'au plus 120 jours le jour premier.

#### **Requête en divorce ou déclaration**

2. Le demandeur signifie la requête en divorce ou la déclaration, ainsi que l'état financier s'il est requis, l'exposé informatif de cause et l'ordonnance de gestion de la cause dans les trente jours suivant le jour premier, et les dépose avec une preuve de leur signification dans les quarante jours suivant le jour premier.

#### **Défaut**

3. Si le demandeur ne se conforme pas à la disposition 2 et est toujours en défaut le quarante-cinquième jour suivant le jour premier, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

#### **Défense à la requête en divorce ou exposé de la défense**

4. Le défendeur signifie la défense à la requête en divorce ou l'exposé de la défense, ainsi que l'état financier s'il est requis, dans les trente jours suivant la date de signification de la requête en divorce ou de la déclaration, et les dépose avec une preuve de leur signification dans les quarante jours suivant cette date.

#### **Défaut**

5. Le quarante-cinquième jour suivant la date de signification de la requête en divorce ou de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 4.

#### **Signification en dehors de l'Ontario**

6. Si la requête en divorce ou la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer la défense à la requête en divorce ou l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.



**Avis d'action, avis d'intention de présenter une défense**

7. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

8. La réponse, le cas échéant, est remise dans les vingt jours de la remise de la défense à la requête en divorce ou de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Avis de mise en état**

9. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

10. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Voie des causes en droit de la famille**

11. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie des causes en droit de la famille.

**Changement de la date de la conférence de gestion**

12. Le tribunal peut, sur la motion d'une partie, avancer la date de la conférence de gestion. Il n'est pas nécessaire que la motion soit appuyée par des documents écrits, et son audition peut se faire par conférence téléphonique.

**Documents destinés à la conférence de gestion**

13. Au moins sept jours avant la date de la conférence de gestion, chaque partie signifie à chacune des autres et dépose, avec une preuve de signification, un résumé d'une page des questions en litige qui font l'objet de l'action, une déclaration des biens familiaux nets si elle est requise, accompagnée des copies des documents à l'appui des calculs, et une liste des documents qui doivent toujours être obtenus.

**Défaut de déposer des documents**

14. Si une partie ne dépose pas les documents dans le délai prescrit, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

15. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 14, 18 ou 20, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Conférence de gestion**

16. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence de gestion, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence de gestion.

17. Un juge, un protonotaire ou une personne désignée par le juge principal régional préside la conférence de gestion, discute avec les parties de la possibilité d'une transaction et peut donner toutes les directives nécessaires, y compris une directive prescrivant l'instruction immédiate d'une question en litige.

#### **Inobservation d'une directive**

18. Si une partie n'observe pas une directive donnée à la conférence de gestion, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

#### **Date et heure de la conférence préparatoire au procès**

19. Lors de la conférence de gestion, la personne qui préside fixe également les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins trente jours la date fixée pour la tenue de celle-ci.

#### **Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

20. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée aux termes de la disposition 19, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

#### **Aucun autre interrogatoire préalable ou motion possible sans autorisation**

21. Passé la date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable ni présenter une motion sans autorisation.

#### **Refus d'autorisation**

22. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 23, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

#### **Dépens**

23. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 22, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

#### **Conférence préparatoire au procès**

24. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

#### **Présidence**

25. La personne qui a présidé la conférence de gestion préside également la conférence préparatoire au procès.

#### **Date du procès**

26. Lors de la conférence préparatoire au procès, la personne qui préside fixe la date du procès, qui suit d'au moins trente jours la conférence préparatoire au procès.

**Procès**

27. Le procès débute dans un délai d'un an suivant le jour premier. Règl. de l'Ont. 443/90, règle 8.

**VOIE ACCÉLÉRÉE DES CAUSES RELATIVES AUX PRIVILÈGES**

9 (1) Dans la présente règle, «Loi» s'entend de la *Loi de 1983 sur le privilège dans l'industrie de la construction*. («Act»)

**Dispositions spéciales**

(2) Les dispositions suivantes s'appliquent aux actions placées dans la voie accélérée des causes relatives aux privilèges :

**Déclaration**

1. Le demandeur signifie la déclaration, ainsi que son affidavit de documents, l'exposé informatif de cause et l'ordonnance de gestion de la cause, dans les quatre-vingt-dix jours suivant le jour premier, conformément au paragraphe 55 (2) de la Loi, et les dépose avec une preuve de leur signification dans les 100 jours suivant le jour premier. Les documents visés à l'annexe A de l'affidavit de documents du demandeur comprennent l'avis de privilège (tel qu'il est enregistré, si le privilège grève le local) et une attestation, et sont signifiés avec la déclaration et les autres documents; cependant, ils ne doivent pas être déposés.

**Défaut**

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le 105<sup>e</sup> jour suivant le jour premier, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur. Cependant, sauf ordonnance contraire du tribunal, l'enregistrement de l'avis de privilège et de tout certificat d'action à l'égard du privilège ne peut être annulé avant que dix jours ne se soient écoulés après la signification de l'ordonnance de rejet au demandeur.

**Exposé de la défense**

3. Le défendeur remet l'exposé de la défense, ainsi que son affidavit de documents, dans les vingt jours suivant la date de signification de la déclaration, conformément au paragraphe 56 (1) de la Loi. Des copies des documents visés à l'annexe A de l'affidavit de documents du défendeur sont signifiées avec l'exposé de la défense et l'affidavit de documents; cependant, elles ne doivent pas être déposées.

**Défaut**

4. Le vingt-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.

**Motion en jugement**

5. Le demandeur demande par voie de motion un jugement dans les soixante jours suivant la constatation du défaut du défendeur. Les affidavits sont recevables en preuve lors de l'audition de la motion.

**Défaut**

6. Si le demandeur ne se conforme pas à la disposition 5, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action. Cependant, sauf ordonnance contraire du tribunal, l'enregistrement de l'avis de privilège et de tout certificat d'action à l'égard du privilège ne peut être annulé avant que dix jours ne se soient écoulés après la signification de l'ordonnance de rejet au demandeur.

**Signification en dehors de l'Ontario**

7. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au



Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

#### **Avis d'action, avis d'intention de présenter une défense**

8. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

#### **Réponse**

9. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

#### **Réunion en vue d'une transaction obligatoire**

10. Une réunion en vue d'une transaction se tient conformément à l'article 63 de la Loi le jour choisi par le demandeur, qui suit d'au moins trente jours et d'au plus cinquante jours la date de signification de la déclaration. Il n'est pas nécessaire d'obtenir une ordonnance pour la tenue de la réunion aux termes du paragraphe 62 (1) de la Loi.

#### **Avis**

11. Le demandeur signifie un avis de réunion en vue d'une transaction conformément au paragraphe 62 (2) de la Loi et dépose une preuve de sa signification dans les dix jours suivant la signification. Une copie de l'ordonnance de gestion de la cause est signifiée avec l'avis de la réunion en vue d'une transaction.

#### **Date d'audition de la motion**

12. Lorsqu'une preuve de la signification d'un avis de réunion en vue d'une transaction est déposée, le greffier fixe une date d'audition de la motion devant un juge aux fins énoncées au paragraphe 63 (5) de la Loi, laquelle date suit d'au moins quinze jours et d'au plus soixante jours la date de la réunion en vue d'une transaction. Le greffier avise le demandeur de cette date et ce dernier signifie l'avis de motion conformément au paragraphe 62 (2) de la Loi et dépose une preuve de sa signification.

#### **Constat de transaction**

13. Si la réunion en vue d'une transaction n'aboutit pas à une transaction exhaustive de l'action, le constat de transaction visé au paragraphe 63 (3) de la Loi, en plus de résumer les questions de fait et de droit sur lesquelles les parties ont transigé, indique tout ce qui suit :
  - i. les noms des créanciers privilégiés,
  - ii. un résumé des questions en litige pertinentes, si le droit à un privilège ou l'opposabilité ou la conservation d'un privilège sont en cause,
  - iii. une déclaration des droits de priorité des créanciers privilégiés et des bénéficiaires de sûretés ou, en l'absence d'entente sur les droits de priorité, un résumé des questions en litige pertinentes,
  - iv. un résumé des autres questions de fait et de droit devant être tranchées au procès,
  - v. une déclaration précisant les documents dont il a été convenu qu'ils seraient déposés au procès et, si la recevabilité ou l'authenticité d'un document est en cause, un résumé des questions en litige pertinentes,
  - vi. un résumé des questions en litige pertinentes, si le montant demandé par le demandeur est en cause,
  - vii. une liste des personnes devant être appelées à témoigner au procès, si des preuves doivent être présentées au procès,
  - viii. une estimation du temps qui sera nécessaire à l'instruction de l'action ou des actions réunies,



- ix. une entente établissant le demandeur qui est chargé de la conduite des actions réunies, si plus d'une action se rapporte au même bien-fonds,
- x. une déclaration indiquant que toutes les parties ont signé le constat de transaction ou, dans le cas contraire, indiquant quelles parties ont signé, ainsi que les motifs de celles qui ont refusé de signer.

#### Dépôt du constat de transaction

14. La partie qui a dirigé la réunion en vue d'une transaction dépose le constat de transaction dans les dix jours suivant la réunion.

#### Pouvoirs du tribunal lors de l'audition de la motion

15. Lors de l'audition de la motion visée à la disposition 12, le tribunal peut exercer les pouvoirs énoncés au paragraphe 63 (5) de la Loi et peut faire également tout ce qui suit :
- i. si plus d'une action se rapporte au même bien-fonds, réunir les actions et confier la responsabilité de la conduite de l'action issue de la réunion, conformément au constat de transaction,
  - ii. fixer une date, qui doit suivre d'au moins quatre-vingt-dix jours et d'au plus 120 jours l'audition de la motion, pour l'instruction de l'action ou de toute question en litige faisant l'objet de l'action,
  - iii. si la seule question en litige qui subsiste est celle du montant demandé par le demandeur, rendre un jugement et ordonner un renvoi à un juge ou à un notaire pour la reddition des comptes et la présentation d'un rapport sur cette question,
  - iv. ordonner que le demandeur chargé de la conduite de l'action dépose avant la date du procès une copie d'un extrait de registre et d'un certificat du shérif (dans le cas d'un local assujéti à la *Loi sur l'enregistrement des actes*) ou d'un certificat de titre (dans le cas d'un local assujéti à la *Loi sur l'enregistrement des droits immobiliers*), dont la date ne doit pas précéder de plus de dix jours la date du procès ou, si le privilège ne grève pas le local, une déclaration du propriétaire indiquant l'identité des titulaires d'un privilège conservé ou rendu opposable qui grève le local,
  - v. ordonner que des interrogatoires préalables aient lieu sur toute question contestée qui est énoncée dans le constat de transaction,
  - vi. ordonner qu'un mémoire des documents visés dans le constat de transaction soit déposé au moins quinze jours avant la date du procès.

#### Exception : cas où nulle partie n'a le droit de recevoir un avis de la réunion en vue d'une transaction

16. Si nulle partie n'a le droit de recevoir un avis de la réunion en vue d'une transaction aux termes du paragraphe 62 (2) de la Loi, le demandeur peut, en déposant un affidavit à cet effet auprès du greffier, demander immédiatement, par voie de motion, un jugement sommaire sans tenir de réunion en vue d'une transaction ni présenter la motion visée à la disposition 12.

#### Refus d'autorisation de présenter une motion

17. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 18, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

#### Dépens

18. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 17 ou 26, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 100 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

#### Interrogatoires préalables

19. Nulle partie ne peut mener des interrogatoires préalables d'une durée de plus de trois heures sans autorisation. La motion en vue d'obtenir l'autorisation peut être présentée sans autorisation.

**Avis de mise en état**

20. Il n'est pas nécessaire de signifier les avis de mise en état.

**Dossier d'instruction**

21. Le dossier d'instruction comprend une copie du constat de transaction et de l'ordonnance prévue à la disposition 15.

**Avis de procès**

22. Le demandeur chargé de la conduite de l'action signifie un avis conformément au paragraphe 62 (4) de la Loi.

**Inscription pour instruction**

23. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Voie accélérée des causes relatives aux privilèges**

24. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie accélérée des causes relatives aux privilèges.

**Procès**

25. Le procès débute dans les dix mois suivant le jour premier.

**Pénalité en cas de retard**

26. Si une partie qui est tenue par la présente règle de prendre une mesure dans un délai précis omet de le faire et qu'aucune autre pénalité n'est prévue pour cette omission, le greffier envoie (sauf dans le cas d'un défendeur contre lequel la clôture de la procédure a été constatée) immédiatement à la partie un avis exigeant qu'elle compareaisse devant le tribunal pour demander une prorogation de délai. Si le tribunal accorde la prorogation, la partie paie un montant à titre de dépens déterminé conformément à la disposition 18, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal. Si la partie ne comparaît pas ou si le tribunal refuse la prorogation, l'action est rejetée ou les actes de procédure de la partie sont radiés, selon le cas. Règl. de l'Ont. 443/90, règle 9.

**VOIE DES CAUSES COMPLEXES**

10 (1) Une action ne peut être placée dans la voie des causes complexes que par voie de transfert en vertu du paragraphe 11 (4).

- (2) Les dispositions suivantes s'appliquent aux actions placées dans la voie des causes complexes :

**Juge responsable de la gestion des causes**

1. Un juge responsable de la gestion des causes est affecté à l'action pour en contrôler le déroulement et pour rendre toute ordonnance et donner toute directive nécessaires.

**Motions**

2. Le juge responsable de la gestion des causes entend toutes les motions qui sont présentées dans l'action à moins qu'il ne soit pas disponible et que le tribunal n'autorise la partie à présenter une motion devant un autre juge.

**Refus d'autorisation de présenter une motion**

3. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 4, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

4. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 3, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 100 \$ à titre de dépens (dans le cas d'une action sur un privilège dans l'industrie de la construction) ou de 200 \$ dans tous les autres cas. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement au montant approprié à titre de dépens.

**Audience sur l'état de l'instance dans une action sur un privilège dans l'industrie de la construction**

5. Dans le cas d'une action sur un privilège dans l'industrie de la construction, si l'action n'est pas inscrite pour instruction dans les dix-huit mois suivant le jour premier, le juge responsable de la gestion des causes tient une audience informelle sur l'état de l'instance.

**Rôle de la voie des causes complexes**

6. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie des causes complexes.

**Date et heure de la conférence préparatoire au procès**

7. Le juge responsable de la gestion des causes fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès.

**Conférence préparatoire au procès**

8. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

**Date du procès**

9. Le juge responsable de la gestion des causes préside la conférence préparatoire au procès et, à cette occasion, fixe la date du procès, qui suit d'au moins soixante jours la conférence préparatoire au procès.

**Nouvelle conférence préparatoire au procès**

10. Au terme de la conférence préparatoire au procès, une partie peut, sur réquisition, obtenir qu'une nouvelle conférence préparatoire au procès soit menée par un juge différent. La tenue d'autres conférences préparatoires au procès requiert une ordonnance du tribunal.

**Procès**

11. Le procès débute dans les trois ans suivant le jour premier. Règl. de l'Ont. 443/90, règle 10.

**TRANSFERT DE CAUSES D'UNE VOIE À UNE AUTRE****Transfert de causes entre la voie accélérée et la voie ordinaire**

11 (1) Le tribunal peut transférer une action de la voie accélérée à la voie ordinaire ou de la voie ordinaire à la voie accélérée, sur la motion d'une partie présentée sur autorisation après la clôture de la procédure écrite.

**Transfert en temps opportun de causes de la voie accélérée à la voie ordinaire**

(2) Une autorisation n'est pas requise pour une motion visant à obtenir le transfert d'une action de la voie accélérée à la voie ordinaire si l'avis de motion est donné dans les dix jours suivant la clôture de la procédure écrite.



**Transfert de causes de la voie des causes en droit de la famille à la voie accélérée**

(3) Le tribunal peut transférer une action de la voie des causes en droit de la famille à la voie accélérée, sur la motion d'une partie présentée sur autorisation après la clôture de la procédure écrite.

**Transfert de causes à la voie des causes complexes**

(4) Une action ne peut être placée dans la voie des causes complexes que si son transfert de la voie accélérée, de la voie ordinaire, de la voie des causes en droit de la famille ou de la voie accélérée des causes relatives aux privilèges a été ordonné par un juge désigné par le juge principal régional, sur la motion d'une partie.

(5) La motion peut être présentée au moment de l'audition de la motion visée à la disposition 12 du paragraphe 9 (2) (dans le cas d'une action sur un privilège dans l'industrie de la construction) ou après la clôture de la procédure écrite (dans tous les autres cas).

(6) Il n'est pas nécessaire que la motion soit présentée sur autorisation ni qu'elle soit appuyée par des documents écrits, et son audition peut se faire par conférence téléphonique.

**Formule d'ordonnance en vue d'obtenir le transfert de causes à la voie des causes complexes**

(7) L'ordonnance qui transfère l'action à la voie des causes complexes est une ordonnance de gestion de la cause rédigée selon la formule 6 (voie des causes complexes).

**Transfert de causes de la voie des causes complexes**

(8) Le juge responsable de la gestion des causes affecté à une action placée dans la voie des causes complexes peut, en tout temps, sur la motion d'une partie ou de son propre chef, transférer l'action à la voie ordinaire, à la voie accélérée, à la voie des causes en droit de la famille ou à la voie accélérée des causes relatives aux privilèges.

**Teneur de l'ordonnance qui transfère une cause à une autre voie que celle des causes complexes**

(9) Une ordonnance qui transfère une action d'une voie à une autre, à l'exclusion d'une ordonnance qui la transfère à la voie des causes complexes, est une ordonnance de gestion de la cause énonçant les dispositions appropriées de la règle 6 (voie accélérée), 7 (voie ordinaire), 8 (voie des causes en droit de la famille) ou 9 (voie accélérée des causes relatives aux privilèges), selon le cas, les directives étant données et les délais étant modifiés au besoin. Règl. de l'Ont. 443/90, règle 11.

**DEMANDES RECONVENTIONNELLES, DEMANDES ENTRE DÉFENDEURS ET MISES EN CAUSE****Voie des demandes reconventionnelles, des demandes entre défendeurs et des mises en cause**

12 (1) Une demande reconventionnelle, une demande entre défendeurs ou une mise en cause sont placées dans la même voie que l'action principale et, sauf pour ce qui est de la remise des actes de procédure, sont soumises au même calendrier.

**Report de la conférence préparatoire au procès et du procès relatifs à l'action principale**

(2) Si une demande reconventionnelle est présentée contre une personne qui n'est pas déjà partie à l'action principale, ou s'il y a mise en cause, la conférence préparatoire au procès et le procès relatifs à l'action principale sont reportés à plus tard afin qu'ils puissent avoir lieu en même temps que la conférence préparatoire au procès et le procès relatifs à la demande reconventionnelle ou à la mise en cause, sauf ordonnance contrainte du tribunal.

**Contestation de l'action principale par un tiers mis en cause**

(3) Un tiers mis en cause qui veut présenter une contestation relative à l'action principale peut le faire dans les délais impartis pour contester la mise en cause. Règl. de l'Ont. 443/90, règle 12.

**REQUÊTES EN MODIFICATION D'ORDONNANCES EN DROIT DE LA FAMILLE PRÉSENTÉES LE 4 SEPTEMBRE 1990 OU À UNE DATE ULTÉRIEURE****Champ d'application**

13 (1) La présente règle s'applique aux requêtes en modification d'ordonnances définitives ou de juge-



ments définitifs pour l'obtention d'aliments, la garde d'enfants ou un droit de visite présentées le 4 septembre 1990 ou à une date ultérieure.

#### **Dépôt de documents**

(2) Lorsqu'un avis de requête est délivré, le requérant dépose tout document justificatif pertinent à la décision sur la requête.

#### **Date d'audience**

(3) Lorsque l'avis de requête est délivré, une date d'audience, qui suit d'au moins quarante-cinq jours et d'au plus soixante jours le jour premier, est obtenue du greffier.

(4) Si l'avis de requête doit être signifié à l'intimé en dehors de l'Ontario, la date d'audience suit d'au moins soixante-cinq jours et d'au plus quatre-vingts jours le jour premier (si la signification est faite ailleurs au Canada ou aux États-Unis) ou suit d'au moins quatre-vingt-cinq jours et d'au plus 100 jours le jour premier (si la signification est faite n'importe où ailleurs).

#### **Ordonnance de gestion de la cause**

(5) Lorsque l'avis de requête est délivré, le tribunal rend une ordonnance de gestion de la cause en recourant à la formule 7 (voie des requêtes en modification d'ordonnances en droit de la famille).

#### **Dispositions spéciales**

(6) Les dispositions suivantes s'appliquent aux requêtes placées dans la voie des requêtes en modification d'ordonnances en droit de la famille :

##### **Avis de requête**

1. Le requérant signifie l'avis de requête, ainsi que l'ordonnance de gestion de la cause, l'état financier, s'il est requis, et tous les autres documents devant être utilisés à l'audience à l'appui de la requête, dans les dix jours suivant le jour premier, et les dépose avec une preuve de leur signification dans les dix-sept jours suivant le jour premier.

##### **Avis de comparution**

2. L'intimé signifie l'avis de comparution, l'affidavit contestant la requête et tous les autres documents requis dans les dix jours suivant la date de signification de l'avis de requête, et les dépose avec une preuve de leur signification dans les quinze jours suivant cette date. Passé ce délai, l'intimé ne peut déposer les documents que sur autorisation.

##### **Signification en dehors de l'Ontario**

3. Si l'avis de requête est signifié à l'intimé en dehors de l'Ontario, les délais impartis pour signifier et déposer l'avis de comparution sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et la date d'audition de la requête est rajustée en conséquence.

##### **Documents destinés à la conférence en vue d'un règlement**

4. Avant la date d'audience indiquée dans l'avis de requête, chaque partie dépose un résumé d'une page des questions en litige et, éventuellement, une copie des documents à l'appui de son état financier.

##### **Défaut de déposer des documents**

5. Si une partie ne dépose pas de résumé ni de documents justificatifs au plus tard à la date d'audience, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 6, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

##### **Dépens**

6. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 5 ou 11, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plu-

siieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

#### **Autorisation requise pour les interrogatoires, contre-interrogatoires ou motions avant la conférence en vue d'une transaction**

7. Avant la date d'audience, nulle partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ni présenter une motion sans autorisation.

#### **Conférence en vue d'une transaction**

8. À la date d'audience indiquée dans l'avis de requête, il doit se tenir une conférence en vue d'une transaction présidée par un juge, un protonotaire ou une personne désignée par le juge principal régional.
9. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence en vue d'une transaction, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date d'audience.

#### **Date et heure de la conférence préparatoire au procès**

10. Si aucune transaction n'est atteinte au cours de la conférence prévue à cette fin, la personne qui préside fixe les date et heure de la conférence préparatoire au procès (s'il est d'avis qu'une conférence préparatoire au procès est nécessaire), une date d'audition de la requête sur le fond, ainsi qu'une date après laquelle nulle partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ni présenter des motions sans autorisation. La personne qui préside peut donner toutes les directives nécessaires, y compris une directive prescrivant l'instruction immédiate d'une question en litige.

#### **Inobservation d'une directive**

11. Si une partie n'observe pas une directive donnée lors de la conférence en vue d'une transaction, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 6, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

#### **Aucun autre interrogatoire, contre-interrogatoire ou motion possible sans autorisation**

12. Passé la date pertinente, fixée aux termes de la disposition 10, une partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ou présenter des motions que sur autorisation de la personne qui a présidé la conférence en vue d'une transaction.

#### **Refus d'autorisation**

13. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 14, immédiatement et indépendamment de l'issue de l'instance, à moins que la personne qui a présidé n'en ordonne autrement.

#### **Dépens**

14. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 13, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

#### **Conférence préparatoire au procès**

15. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

#### **Présidence**

16. La personne qui a présidé la conférence en vue d'une transaction préside également la conférence préparatoire au procès, le cas échéant, mais non l'audition de la requête.

**Audition de la requête sur le fond**

17. L'audition de la requête débute dans les six mois suivant le jour premier. Règl. de l'Ont. 443/90, règle 13.

**ACTIONS DÉJÀ EN COURS****ACTIONS INTRODUITES AVANT LE 1<sup>er</sup> JANVIER 1985**

- 14 Les dispositions suivantes s'appliquent aux actions introduites avant le 1<sup>er</sup> janvier 1985 :

**Avis de mise en état**

1. Il n'est pas nécessaire de signifier les avis de mise en état.

**Juge responsable de la gestion des causes, rôle**

2. Dès que l'action est inscrite pour instruction, un juge responsable de la gestion des causes y est affecté et le greffier inscrit l'action au rôle des actions introduites avant le 1<sup>er</sup> janvier 1985.

**Date et heure de la conférence préparatoire au procès**

3. Le juge responsable de la gestion des causes fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

4. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée par le juge, le greffier, à moins que le juge responsable de la gestion des causes n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 5, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

5. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 4, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Conférence préparatoire au procès**

6. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence. Il n'est pas nécessaire que la motion visant à obtenir une telle ordonnance soit appuyée par des documents écrits, et son audition peut se faire par conférence téléphonique.
7. Lors de la conférence préparatoire au procès, le juge qui préside peut donner toute directive nécessaire et fixer la date du procès.

**Rôle spécial prioritaire**

8. Si le juge qui préside la conférence préparatoire au procès ne fixe pas la date du procès, l'action est inscrite à un rôle prioritaire, réservé aux actions introduites avant le 1<sup>er</sup> janvier 1985. Une fois écoulé un mois après la date de la conférence préparatoire au procès, l'instruction de l'action peut être ordonnée à n'importe quel moment, sans préavis. Règl. de l'Ont. 443/90, règle 14.

**ACTIONS INTRODUITES LE 1<sup>er</sup> JANVIER 1985 OU À UNE DATE ULTÉRIEURE ET AVANT LE 4 SEPTEMBRE 1990**

- 15 Les dispositions suivantes s'appliquent aux actions introduites à compter du 1<sup>er</sup> janvier 1985 et avant le 4 septembre 1990 :



**Avis de mise en état**

1. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

2. Si l'action a été introduite au plus tard le 31 décembre 1989, le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les trente jours de la clôture de la procédure écrite ou au plus tard le 5 novembre 1990, selon la date qui est la plus éloignée.
3. Si l'action a été introduite après le 31 décembre 1989 et avant le 4 septembre 1990, le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction au plus tard le 31 décembre 1990.

**Défaut**

4. Si le demandeur ne se conforme pas à la disposition 2 ou 3, selon le cas, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée si le demandeur ne remédie pas au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Inscription au rôle approprié**

5. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie ordinaire, au rôle de la voie des causes en droit de la famille ou au rôle de la voie accélérée des causes relatives aux privilèges, ou encore au rôle de la voie des causes complexes si un juge désigné par le juge principal régional l'ordonne, sur la motion d'une partie. Il n'est pas nécessaire que la motion soit présentée sur autorisation ni qu'elle soit appuyée par des documents écrits, et son audition peut se faire par conférence téléphonique.

**Date et heure de l'étude de cause en groupe**

6. Le greffier fixe également les date et heure pour la tenue d'une étude de cause en groupe, et peut ordonner que cette étude se fasse par conférence téléphonique.

**Étude de cause en groupe**

7. Le juge qui préside l'étude de cause en groupe fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès.

**Poursuite de l'action suivant la voie appropriée**

8. Les dispositions 10 à 17 de la règle 7 (voie ordinaire), les dispositions 19 à 26 de la règle 8 (voie des causes en droit de la famille), la disposition 10 de la règle 9 (voie accélérée des causes relatives aux privilèges) ou les dispositions 1 à 10 du paragraphe 10 (2) (voie des causes complexes), selon le cas, s'appliquent à l'action avec les adaptations nécessaires. Règl. de l'Ont. 443/90, règle 15.

**Titre abrégé**

- 16 Le titre abrégé des présentes règles est Règles de gestion des causes civiles d'Essex.

**Entrée en vigueur**

- 17 (1) Les présentes règles entrent en vigueur le 4 septembre 1990.

**Délai de deux ans**

- (2) Les présentes règles sont révoquées le 7 septembre 1992.



FORMULE 1

EXPOSÉ INFORMATIF DE CAUSE

(Espace réservé au personnel judiciaire)

Cour de l'Ontario (Division générale)  
Comté d'Essex

Numéro de dossier : .....

Date de délivrance de l'acte introductif d'instance : ..... 199.....

Demandeur(s) : *(inscrire le/les nom(s) )*

Procureur : *(inscrire les nom, adresse, numéro de téléphone, numéro de télécopieur et raison sociale)*

Défendeur(s) : *(inscrire le/les nom(s) )*

Procureur : *(mêmes renseignements que pour le procureur du demandeur, s'ils sont connus)*

Catégorie de cause *(cocher toute catégorie applicable) :*

DÉLITS CIVILS	CONTRATS	FAMILLE	AUTRE
Véhicule automobile	Biens immeubles	Divorce	Faillite
Autre négligence	Privilège dans l'industrie de la construction	Biens	Propriétaire/locataire
Négligence professionnelle	Recouvrement	Aliments	Abus de confiance
	Renvoi injustifié	Garde d'enfants	Successions
	Autre inexécution de contrat	Autre	Autre

Voie choisie *(ne cocher qu'une seule catégorie) :*

- Accélérée
- Ordinaire
- Droit de la famille
- Accélérée des causes relatives aux privilèges

Date proposée de la conférence préparatoire au procès : ..... 199.....

Date proposée du procès : ..... 199.....

S'agit-il d'une cause devant jury?    Oui .....    Non .....

Autres renseignements :

Date .....

Signature du procureur du demandeur

Règl. de l'Ont. 443/90, formule 1.

**FORMULE 2****ORDONNANCE DE GESTION DE LA CAUSE****(VOIE ACCÉLÉRÉE)***(titre)**(Sceau de la cour)***ORDONNANCE DE GESTION DE LA CAUSE****(VOIE ACCÉLÉRÉE)****IL EST ORDONNÉ CE QUI SUIT :****Déclaration**

1. Le demandeur signifie la déclaration, ainsi que son affidavit de documents, l'exposé informatif de cause et la présente ordonnance de gestion de la cause, au plus tard le *(inscrire la date qui suit de trente jours le jour premier)*, et les dépose avec une preuve de leur signification au plus tard le *(inscrire la date qui suit de quarante jours le jour premier)*. Des copies des documents visés à l'annexe A de l'affidavit de documents du demandeur sont signifiées avec la déclaration et les autres documents; cependant, elles ne doivent pas être déposées.

**Défaut**

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le *(inscrire la date qui suit de quarante-cinq jours le jour premier)*, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Exposé de la défense**

3. Le défendeur signifie l'exposé de la défense, ainsi que son affidavit de documents, dans les trente jours suivant la date de signification de la déclaration, et les dépose avec une preuve de leur signification dans les quarante jours suivant cette date. Des copies des documents visés à l'annexe A de l'affidavit de documents du défendeur sont signifiées avec l'exposé de la défense et l'affidavit de documents; cependant, elles ne doivent pas être déposées.

**Défaut**

4. Le quarante-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.

**Signification en dehors de l'Ontario**

5. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

**Avis d'action, avis d'intention de présenter une défense**

6. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

7. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Autorisation de présenter des motions**

8. Aucune motion ne peut être présentée sans autorisation, sauf s'il s'agit d'une motion visée à la disposition 11 (interrogatoires préalables) de la présente ordonnance de gestion de la cause ou au paragraphe 11 (2) (transfert de causes en temps opportun) des Règles de gestion des causes civiles d'Essex.

**Refus d'autorisation**

9. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 10, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

10. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 9, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Interrogatoires préalables**

11. Nulle partie ne peut mener des interrogatoires préalables d'une durée de plus de trois heures sans autorisation. La motion en autorisation peut être présentée sans autorisation.

**Avis de mise en état**

12. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

13. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Date et heure de la conférence préparatoire au procès, rôle de la voie accélérée**

14. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie accélérée, fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins quatorze jours le jour fixé pour la tenue de la conférence.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

15. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée par le greffier, ce dernier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 16, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

16. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 15, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Aucun autre interrogatoire préalable possible sans autorisation**

17. Passé la date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable sans autorisation.

**Conférence préparatoire au procès**

18. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

**Date du procès**

19. Lors de la conférence préparatoire au procès, le juge fixe la date du procès.

**Procès**

20. Le procès débute au plus tard le (*inscrire la date qui suit de six mois le jour premier*).

Date : ..... Signée par : .....  
(greffier)

Adresse du greffe : .....  
.....  
.....

Règl. de l'Ont. 443/90, formule 2.

**FORMULE 3****ORDONNANCE DE GESTION DE LA CAUSE****(VOIE ORDINAIRE)**

(titre)

(Sceau de la cour)

**ORDONNANCE DE GESTION DE LA CAUSE****(VOIE ORDINAIRE)****IL EST ORDONNÉ CE QUI SUIT :****Déclaration**

1. Le demandeur signifie la déclaration, ainsi que l'exposé informatif de cause et la présente ordonnance de gestion de la cause, au plus tard le (*inscrire la date qui suit de trente jours le jour premier*), et les dépose avec une preuve de leur signification au plus tard le (*inscrire la date qui suit de quarante jours le jour premier*).

**Défaut**

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le (*inscrire la date qui suit de quarante-cinq jours le jour premier*), le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Exposé de la défense**

3. Le défendeur signifie l'exposé de la défense dans les trente jours suivant la date de signification de la déclaration, et le dépose avec une preuve de sa signification dans les quarante jours suivant cette date.

**Défaut**

4. Le quarante-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.



**Signification en dehors de l'Ontario**

5. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

**Avis d'action, avis d'intention de présenter une défense**

6. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

7. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Avis de mise en état**

8. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

9. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les soixante-quinze jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Date et heure de la conférence préparatoire au procès, rôle de la voie ordinaire**

10. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie ordinaire, fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date fixée pour la tenue de la conférence suit d'au moins huit mois le jour où l'action est inscrite pour instruction (à moins qu'une date plus rapprochée ne soit possible et que les parties n'y consentent), et la date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins trente jours le jour fixé pour la tenue de celle-ci.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

11. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée par le greffier, ce dernier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 12, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

12. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 11, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Aucun autre interrogatoire préalable ou motion possible sans autorisation**

13. Passé la date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable ni présenter une motion sans autorisation.

**Refus d'autorisation**

14. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à

titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

### Dépens

15. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 14, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

### Conférence préparatoire au procès

16. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

### Date du procès

17. Lors de la conférence préparatoire au procès, le juge fixe la date du procès, qui suit d'au moins trente jours la conférence préparatoire au procès.

### Procès

18. Le procès débute au plus tard le (*inscrire la date qui suit de dix-huit mois le jour premier*).

Date : ..... Signée par : .....  
(greffier)

Adresse du greffe : .....  
.....  
.....

Règl. de l'Ont. 443/90, formule 3.

## FORMULE 4

### ORDONNANCE DE GESTION DE LA CAUSE (VOIE DES CAUSES EN DROIT DE LA FAMILLE)

(titre)

(Sceau de la cour)

### ORDONNANCE DE GESTION DE LA CAUSE (VOIE DES CAUSES EN DROIT DE LA FAMILLE)

#### IL EST ORDONNÉ CE QUI SUIT :

##### Date de la conférence de gestion

1. La conférence de gestion a lieu le (*inscrire une date qui suit d'au moins quatre-vingt-dix jours et d'au plus 120 jours le jour premier*).

##### Requête en divorce ou déclaration

2. Le demandeur signifie la requête en divorce ou la déclaration, ainsi que l'état financier s'il est requis, l'exposé informatif de cause et la présente ordonnance de gestion de la cause au plus tard le (*inscrire la date qui suit de trente jours le jour premier*), et les dépose avec une preuve de leur signification au plus tard le (*inscrire la date qui suit de quarante jours le jour premier*).

**Défaut**

3. Si le demandeur ne se conforme pas à la disposition 2 et est toujours en défaut le (*inscrire la date qui suit de quarante-cinq jours le jour premier*), le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Défense à la requête en divorce ou exposé de la défense**

4. Le défendeur signifie la défense à la requête en divorce ou l'exposé de la défense, ainsi que l'état financier s'il est requis, dans les trente jours suivant la date de signification de la requête en divorce ou de la déclaration, et les dépose avec une preuve de leur signification dans les quarante jours suivant cette date.

**Défaut**

5. Le quarante-cinquième jour suivant la date de signification de la requête en divorce ou de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 4.

**Signification en dehors de l'Ontario**

6. Si la requête en divorce ou la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer la défense à la requête en divorce ou l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

**Avis d'action, avis d'intention de présenter une défense**

7. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

**Réponse**

8. La réponse, le cas échéant, est remise dans les vingt jours de la remise de la défense à la requête en divorce, de la défense et de la demande reconventionnelle en divorce ou de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

**Avis de mise en état**

9. Il n'est pas nécessaire de signifier les avis de mise en état.

**Inscription pour instruction**

10. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

**Voie des causes en droit de la famille**

11. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie des causes en droit de la famille.

**Changement de la date de la conférence de gestion**

12. Le tribunal peut, sur la motion d'une partie, avancer la date de la conférence de gestion. Il n'est pas nécessaire que la motion soit appuyée par des documents écrits, et son audition peut se faire par conférence téléphonique.



**Documents destinés à la conférence de gestion**

13. Au moins sept jours avant la date de la conférence de gestion, chaque partie signifie à chacune des autres et dépose, avec une preuve de signification, un résumé d'une page des questions en litige qui font l'objet de l'action, une déclaration des biens familiaux nets si elle est requise, accompagnée des copies des documents à l'appui des calculs, et une liste des documents qui doivent toujours être obtenus.

**Défaut de déposer des documents**

14. Si une partie ne dépose pas les documents dans le délai prescrit, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Dépens**

15. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 14, 18 ou 20, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Conférence de gestion**

16. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence de gestion, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence de gestion.
17. Un juge, un protonotaire ou une personne désignée par le juge principal régional préside la conférence de gestion, discute avec les parties de la possibilité d'une transaction et peut donner toutes les directives nécessaires, y compris une directive prescrivant l'instruction immédiate d'une question en litige et une directive de renvoi d'une question en litige.

**Inobservation d'une directive**

18. Si une partie n'observe pas une directive donnée à la conférence de gestion, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Date et heure de la conférence préparatoire au procès**

19. Lors de la conférence de gestion, la personne qui préside fixe également les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès. La date de dépôt des mémoires relatifs à la conférence préparatoire au procès précède d'au moins trente jours la date fixée pour la tenue de celle-ci.

**Défaut de déposer un mémoire relatif à la conférence préparatoire au procès**

20. Si une partie ne dépose pas son mémoire relatif à la conférence préparatoire au procès au plus tard à la date fixée aux termes de la disposition 19, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 15, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Aucun autre interrogatoire préalable ou motion possible sans autorisation**

21. Passé la date fixée pour la tenue de la conférence préparatoire au procès, nulle partie ne peut procéder à un interrogatoire préalable ni présenter une motion sans autorisation.



Refus d'autorisation

- 22. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 23, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

Dépens

- 23. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 22, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

Conférence préparatoire au procès

- 24. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

Présidence

- 25. La personne qui a présidé la conférence de gestion préside également la conférence préparatoire au procès.

Date du procès

- 26. Lors de la conférence préparatoire au procès, la personne qui préside fixe la date du procès, qui suit d'au moins trente jours la conférence préparatoire au procès.

Procès

- 27. Le procès débute au plus tard le (*inscrire la date qui suit d'un an le jour premier*).

Date : ..... Signée par : .....  
(greffier)

Adresse du greffe : .....  
.....  
.....

Règl. de l'Ont. 443/90, formule 4.

FORMULE 5

ORDONNANCE DE GESTION DE LA CAUSE  
(VOIE ACCÉLÉRÉE DES CAUSES RELATIVES AUX PRIVILÈGES)  
(titre)

(Sceau de la cour)

ORDONNANCE DE GESTION DE LA CAUSE  
(VOIE ACCÉLÉRÉE DES CAUSES RELATIVES AUX PRIVILÈGES)

IL EST ORDONNÉ CE QUI SUIT :

Déclaration

- 1. Le demandeur signifie la déclaration, ainsi que son affidavit de documents, l'exposé informatif de cause et la présente ordonnance de gestion de la cause, au plus tard le (*inscrire la date qui suit de*

*quatre-vingt-dix jours le jour premier*), conformément au paragraphe 55 (2) de la *Loi de 1983 sur le privilège dans l'industrie de la construction* («la Loi»), et les dépose avec une preuve de leur signification au plus tard le (*inscrire la date qui suit de 100 jours le jour premier*). Les documents visés à l'annexe A de l'affidavit de documents du demandeur comprennent l'avis de privilège (tel qu'il est enregistré, si le privilège grève le local) et une attestation, et sont signifiés avec la déclaration et les autres documents; cependant, ils ne doivent pas être déposés.

#### Défaut

2. Si le demandeur ne se conforme pas à la disposition 1 et est toujours en défaut le (*inscrire la date qui suit de 105 jours le jour premier*), le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur. Cependant, sauf ordonnance contraire du tribunal, l'enregistrement de l'avis de privilège et de tout certificat d'action à l'égard du privilège ne peut être annulé avant que dix jours ne se soient écoulés après la signification de l'ordonnance de rejet au demandeur.

#### Exposé de la défense

3. Le défendeur remet l'exposé de la défense, ainsi que son affidavit de documents, dans les vingt jours suivant la date de signification de la déclaration, conformément au paragraphe 56 (1) de la Loi. Des copies des documents visés à l'annexe A de l'affidavit de documents du défendeur sont signifiées avec l'exposé de la défense et l'affidavit de documents; cependant, elles ne doivent pas être déposées.

#### Défaut

4. Le vingt-cinquième jour suivant la date de signification de la déclaration, le greffier constate le défaut de tout défendeur qui ne s'est pas encore conformé à la disposition 3.

#### Motion en jugement

5. Le demandeur demande par voie de motion un jugement dans les soixante jours suivant la constatation du défaut du défendeur. Les affidavits sont recevables en preuve lors de l'audition de la motion.

#### Défaut

6. Si le demandeur ne se conforme pas à la disposition 5, le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action. Cependant, sauf ordonnance contraire du tribunal, l'enregistrement de l'avis de privilège et de tout certificat d'action à l'égard du privilège ne peut être annulé avant que dix jours ne se soient écoulés après la signification de l'ordonnance de rejet au demandeur.

#### Signification en dehors de l'Ontario

7. Si la déclaration est signifiée au défendeur en dehors de l'Ontario, les délais impartis pour signifier et déposer l'exposé de la défense sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et les autres délais applicables à l'action sont rajustés en conséquence.

#### Avis d'action, avis d'intention de présenter une défense

8. Les délais applicables à l'action ne sont pas prorogés dans le cas d'un recours à un avis d'action ou à un avis d'intention de présenter une défense.

#### Réponse

9. La réponse, le cas échéant, est remise dans les dix jours de la remise de l'exposé de la défense. Aucune réponse ne peut être remise passé ce délai sans autorisation du tribunal.

#### Réunion en vue d'une transaction obligatoire

10. Une réunion en vue d'une transaction se tient conformément à l'article 63 de la Loi le jour choisi par le demandeur, qui suit d'au moins trente jours et d'au plus cinquante jours la date de signification de

la déclaration. Il n'est pas nécessaire d'obtenir une ordonnance pour la tenue de la réunion aux termes du paragraphe 62 (1) de la Loi.

#### Avis

11. Le demandeur signifie un avis de réunion en vue d'une transaction conformément au paragraphe 62 (2) de la Loi et dépose une preuve de sa signification dans les dix jours suivant la signification. Une copie de la présente ordonnance de gestion de la cause est signifiée avec l'avis de la réunion en vue d'une transaction.

#### Date d'audition de la motion

12. Lorsqu'une preuve de la signification d'un avis de réunion en vue d'une transaction est déposée, le greffier fixe une date d'audition de la motion devant un juge aux fins énoncées au paragraphe 63 (5) de la Loi, laquelle date suit d'au moins quinze jours et d'au plus soixante jours la date de la réunion en vue d'une transaction. Le greffier avise le demandeur de cette date et ce dernier signifie l'avis de motion conformément au paragraphe 62 (2) de la Loi et dépose une preuve de sa signification.

#### Constat de transaction

13. Si la réunion en vue d'une transaction n'aboutit pas à une transaction exhaustive de l'action, le constat de transaction visé au paragraphe 63 (3) de la Loi, en plus de résumer les questions de fait et de droit sur lesquelles les parties ont transigé, indique tout ce qui suit :

- i. les noms des créanciers privilégiés,
- ii. un résumé des questions en litige pertinentes, si le droit à un privilège ou l'opposabilité ou la conservation d'un privilège sont en cause,
- iii. une déclaration des droits de priorité des créanciers privilégiés et des bénéficiaires de sûretés ou, en l'absence d'entente sur les droits de priorité, un résumé des questions en litige pertinentes,
- iv. un résumé des autres questions de fait et de droit devant être tranchées au procès,
- v. une déclaration précisant les documents dont il a été convenu qu'ils seraient déposés au procès et, si la recevabilité ou l'authenticité d'un document est en cause, un résumé des questions en litige pertinentes,
- vi. un résumé des questions en litige pertinentes, si le montant demandé par le demandeur est en cause,
- vii. une liste des personnes devant être appelées à témoigner au procès, si des preuves doivent être présentées au procès,
- viii. une estimation du temps qui sera nécessaire à l'instruction de l'action ou des actions réunies,
- ix. une entente établissant le demandeur qui est chargé de la conduite des actions réunies, si plus d'une action se rapporte au même bien-fonds,
- x. une déclaration indiquant que toutes les parties ont signé le constat de transaction ou, dans le cas contraire, indiquant quelles parties ont signé, ainsi que les motifs de celles qui ont refusé de signer.

#### Dépôt du constat de transaction

14. La partie qui a dirigé la réunion en vue d'une transaction dépose le constat de transaction dans les dix jours suivant la réunion.

#### Pouvoirs du tribunal lors de l'audition de la motion

15. Lors de l'audition de la motion visée à la disposition 12, le tribunal peut exercer les pouvoirs énoncés au paragraphe 63 (5) de la Loi et peut faire également tout ce qui suit :



- i. si plus d'une action se rapporte au même bien-fonds, réunir les actions et confier la responsabilité de la conduite de l'action issue de la réunion, conformément au constat de transaction,
- ii. fixer une date, qui doit suivre d'au moins quatre-vingt-dix jours et d'au plus 120 jours l'audition de la motion, pour l'instruction de l'action ou de toute question en litige faisant l'objet de l'action,
- iii. si la seule question en litige qui subsiste est celle du montant demandé par le demandeur, rendre un jugement et ordonner un renvoi à un juge ou à un protonotaire pour la reddition des comptes et la présentation d'un rapport sur cette question,
- iv. ordonner que le demandeur chargé de la conduite de l'action dépose avant la date du procès une copie d'un extrait de registre et d'un certificat du shérif (dans le cas d'un local assujéti à la *Loi sur l'enregistrement des actes*) ou d'un certificat de titre (dans le cas d'un local assujéti à la *Loi sur l'enregistrement des droits immobiliers*), dont la date ne doit pas précéder de plus de dix jours la date du procès ou, si le privilège ne grève pas le local, une déclaration du propriétaire indiquant l'identité des titulaires d'un privilège conservé ou rendu opposable qui grève le local,
- v. ordonner que des interrogatoires préalables aient lieu sur toute question contestée qui est énoncée dans le constat de transaction,
- vi. ordonner qu'un mémoire des documents visés dans le constat de transaction soit déposé au moins quinze jours avant la date du procès.

**Exception : cas où nulle partie n'a le droit de recevoir un avis de la réunion en vue d'une transaction**

16. Si nulle partie n'a le droit de recevoir un avis de la réunion en vue d'une transaction aux termes du paragraphe 62 (2) de la Loi, le demandeur peut, en déposant un affidavit à cet effet auprès du greffier, demander immédiatement, par voie de motion, un jugement sommaire sans tenir de réunion en vue d'une transaction ni présenter la motion visée à la disposition 12.

**Refus d'autorisation de présenter une motion**

17. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 18, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

18. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 17 ou 26, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 100 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Interrogatoires préalables**

19. Nulle partie ne peut mener des interrogatoires préalables d'une durée de plus de trois heures sans autorisation. La motion en vue d'obtenir l'autorisation peut être présentée sans autorisation.

**Avis de mise en état**

20. Il n'est pas nécessaire de signifier les avis de mise en état.

**Dossier d'instruction**

21. Le dossier d'instruction comprend une copie du constat de transaction et de l'ordonnance prévue à la disposition 15.

**Avis de procès**

22. Le demandeur chargé de la conduite de l'action signifie un avis conformément au paragraphe 62 (4) de la Loi.



Inscription pour instruction

- 23. Le demandeur signifie et dépose le dossier d'instruction, et inscrit l'action pour instruction dans les quarante-cinq jours suivant la clôture de la procédure écrite, faute de quoi le greffier lui signifie immédiatement un avis indiquant que l'action sera rejetée s'il n'est pas remédié au défaut dans les quinze jours suivant la signification de l'avis. Si le demandeur ne remédie pas au défaut dans ce délai, le greffier rejette l'action et les dépens de tous les défendeurs qui ont remis une défense sont à la charge du demandeur.

Voie accélérée des causes relatives aux privilèges

- 24. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie accélérée des causes relatives aux privilèges.

Procès

- 25. Le procès débute au plus tard le (*inscrire la date qui suit de dix mois le jour premier*).

Pénalité générale en cas de retard

- 26. Si une partie qui est tenue par la présente ordonnance de prendre une mesure dans un délai précis omet de le faire et qu'aucune autre pénalité n'est prévue pour cette omission, le greffier envoie (sauf dans le cas d'un défendeur contre lequel la clôture de la procédure a été constatée) immédiatement à la partie un avis exigeant qu'elle compareaisse devant le tribunal pour demander une prorogation de délai. Si le tribunal accorde la prorogation, la partie paie un montant à titre de dépens déterminé conformément à la disposition 18, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal. Si la partie ne compareait pas ou si le tribunal refuse la prorogation, l'action est rejetée ou les actes de procédure de la partie sont radiés, selon le cas.

Date : ..... Signée par : .....  
(greffier)

Adresse du greffe : .....  
.....  
.....

Règl. de l'Ont. 443/90, formule 5.

FORMULE 6

ORDONNANCE DE GESTION DE LA CAUSE  
(VOIE DES CAUSES COMPLEXES)

(titre)

(Sceau de la cour)

ORDONNANCE DE GESTION DE LA CAUSE  
(VOIE DES CAUSES COMPLEXES)

IL EST ORDONNÉ CE QUI SUIIT :

Transfert de causes à la voie des causes complexes

- 1. La présente action est transférée à la voie des causes complexes.

Juge responsable de la gestion des causes

- 2. .... (*nom du juge*) est affecté à l'action en tant que juge responsable de la gestion des causes pour en contrôler le déroulement et pour rendre toute ordonnance et donner toute directive nécessaires.

**Motions**

3. Le juge responsable de la gestion des causes entend toutes les motions qui sont présentées dans l'action, à moins qu'il ne soit pas disponible et que le tribunal n'autorise la partie à présenter une motion devant un autre juge.

**Refus d'autorisation de présenter une motion**

4. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 5, immédiatement et indépendamment de l'issue de l'instance, sauf ordonnance contraire du tribunal.

**Dépens**

5. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 4, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 100 \$ à titre de dépens (dans le cas d'une action sur un privilège dans l'industrie de la construction) ou de 200 \$ dans tous les autres cas. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement au montant approprié à titre de dépens.

**Audience sur l'état de l'instance dans une action sur un privilège dans l'industrie de la construction**

6. Dans le cas d'une action sur un privilège dans l'industrie de la construction, si l'action n'est pas inscrite pour instruction dans les dix-huit mois suivant le jour premier, le juge responsable de la gestion des causes tient une audience informelle sur l'état de l'instance.

**Rôle de la voie des causes complexes**

7. Dès que l'action est inscrite pour instruction, le greffier l'inscrit au rôle de la voie des causes complexes.

**Date et heure de la conférence préparatoire au procès**

8. Le juge responsable de la gestion des causes fixe les date et heure de la conférence préparatoire au procès, ainsi qu'une date limite de dépôt par toutes les parties des mémoires relatifs à la conférence préparatoire au procès.

**Conférence préparatoire au procès**

9. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

**Date du procès**

10. Le juge responsable de la gestion des causes préside la conférence préparatoire au procès et, à cette occasion, fixe la date du procès, qui suit d'au moins soixante jours la conférence préparatoire au procès.

**Nouvelle conférence préparatoire au procès**

11. Au terme de la conférence préparatoire au procès, une partie peut, sur réquisition, obtenir qu'une nouvelle conférence préparatoire au procès soit menée par un juge différent. La tenue d'autres conférences préparatoires au procès requiert une ordonnance du tribunal.

**Procès**

12. Le procès débute au plus tard le (*inscrire la date qui suit de trois ans le jour premier*).

Date : .....

Signée par : .....  
(juge)

Adresse du greffe : .....  
.....  
.....

Règl. de l'Ont. 443/90, formule 6.

FORMULE 7

ORDONNANCE DE GESTION DE LA CAUSE

(VOIE DES REQUÊTES EN MODIFICATION D'ORDONNANCES EN DROIT DE LA FAMILLE)

(titre)

(Sceau de la cour)

ORDONNANCE DE GESTION DE LA CAUSE

(VOIE DES REQUÊTES EN MODIFICATION D'ORDONNANCES EN DROIT DE LA FAMILLE)

IL EST ORDONNÉ CE QUI SUIT :

Avis de requête

- 1. Le requérant signifie l'avis de requête, ainsi que la présente ordonnance de gestion de la cause, l'état financier, s'il est requis, et tous les autres documents devant être utilisés à l'audience à l'appui de la requête, au plus tard le (*inscrire la date qui suit de dix jours le jour premier*), et les dépose avec une preuve de leur signification au plus tard le (*inscrire la date qui suit de dix-sept jours le jour premier*).

Avis de comparution

- 2. L'intimé signifie l'avis de comparution, l'affidavit contestant la requête et tous les autres documents requis dans les dix jours suivant la date de signification de l'avis de requête, et les dépose avec une preuve de leur signification dans les quinze jours suivant cette date. Passé ce délai, l'intimé ne peut déposer les documents que sur autorisation.

Signification en dehors de l'Ontario

- 3. Si l'avis de requête est signifié à l'intimé en dehors de l'Ontario, les délais impartis pour signifier et déposer l'avis de comparution sont prorogés (de vingt jours, si la signification est faite ailleurs au Canada ou aux États-Unis, ou de quarante jours, si la signification est faite n'importe où ailleurs) et la date d'audition de la requête est rajustée en conséquence.

Documents destinés à la conférence en vue d'un règlement

- 4. Avant la date d'audience indiquée dans l'avis de requête, chaque partie dépose un résumé d'une page des questions en litige et, éventuellement, une copie des documents à l'appui de son état financier.

Défaut de déposer des documents

- 5. Si une partie ne dépose pas de résumé ni de documents justificatifs au plus tard à la date d'audience, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 6, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

Dépens

- 6. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 5 ou 11, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 300 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Autorisation requise pour les interrogatoires, contre-interrogatoires ou motions avant la conférence en vue d'une transaction**

7. Avant la date d'audience, nulle partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ni présenter une motion sans autorisation.

**Conférence en vue d'une transaction**

8. À la date d'audience indiquée dans l'avis de requête, il doit se tenir une conférence en vue d'une transaction présidée par un juge, un protonotaire ou une personne désignée par le juge principal régional.
9. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence en vue d'une transaction, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date d'audience.

**Date et heure de la conférence préparatoire au procès**

10. Si aucune transaction n'est atteinte au cours de la conférence prévue à cette fin, la personne qui préside fixe les date et heure de la conférence préparatoire au procès (s'il est d'avis qu'une conférence préparatoire au procès est nécessaire), une date d'audition de la requête sur le fond, ainsi qu'une date après laquelle nulle partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ni présenter des motions sans autorisation. La personne qui préside peut donner toutes les directives nécessaires, y compris une directive prescrivant l'instruction immédiate d'une question en litige.

**Inobservation d'une directive**

11. Si une partie n'observe pas une directive donnée lors de la conférence en vue d'une transaction, le greffier, à moins que le tribunal n'en ordonne autrement, rend une ordonnance exigeant de la partie le paiement d'un montant à titre de dépens déterminé conformément à la disposition 6, immédiatement et indépendamment de l'issue de l'instance, et fixant une date à laquelle la partie doit comparaître avec son avocat pour exposer les raisons de son omission au tribunal.

**Aucun autre interrogatoire, contre-interrogatoire ou motion possible sans autorisation**

12. Passé la date pertinente, fixée aux termes de la disposition 10, une partie ne peut procéder à un interrogatoire ou à un contre-interrogatoire ou présenter des motions que sur autorisation de la personne qui a présidé la conférence en vue d'une transaction.

**Refus d'autorisation**

13. En cas de refus d'autoriser la présentation d'une motion, l'auteur de la motion paie un montant à titre de dépens déterminé conformément à la disposition 14, immédiatement et indépendamment de l'issue de l'instance, à moins que la personne qui a présidé n'en ordonne autrement.

**Dépens**

14. Lorsqu'une partie est tenue de payer les dépens prévus à la disposition 13, chaque partie adverse qui est représentée séparément par un avocat a droit au montant de 200 \$ à titre de dépens. Si plusieurs parties adverses sont représentées par le même avocat, elles ont droit conjointement à ce montant à titre de dépens.

**Conférence préparatoire au procès**

15. Toutes les parties, ainsi que leur avocat, doivent assister à la conférence préparatoire au procès, à moins qu'une ordonnance en dispensant une partie ne soit rendue avant la date fixée pour la tenue de la conférence.

**Présidence**

16. La personne qui a présidé la conférence en vue d'une transaction préside également la conférence préparatoire au procès, le cas échéant, mais non l'audition de la requête.



**Audition de la requête sur le fond**

17. L'audition de la requête débute au plus tard le (*inscrire la date qui suit de six mois le jour premier*).

Date : .....

Signée par : .....  
(greffier)

Adresse du greffe : .....

Règl. de l'Ont. 443/90, formule 7.

34/90

**REGIONAL MUNICIPALITY OF YORK ACT**

O. Reg. 444/90.

Town of Vaughan—Alteration of Status.

Made—July 27th, 1990.

Filed—August 1st, 1990.

REGULATION MADE UNDER THE  
REGIONAL MUNICIPALITY OF YORK ACT

TOWN OF VAUGHAN—ALTERATION OF  
STATUS

1. Effective the 1st day of January, 1991, The Corporation of the Town of Vaughan is erected into a city municipality bearing the name of The Corporation of the City of Vaughan. O. Reg. 444/90, s. 1.

2. A reference in any general or special Act to the Town of Vaughan or The Corporation of the Town of Vaughan shall be deemed to be a reference to the City of Vaughan or The Corporation of the City of Vaughan, respectively. O. Reg. 444/90, s. 2.

34/90

**GENERAL WELFARE ASSISTANCE ACT**

O. Reg. 445/90.

General.

Made—July 30th, 1990.

Filed—August 2nd, 1990.

REGULATION TO AMEND  
REGULATION 441 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
GENERAL WELFARE ASSISTANCE ACT

1.—(1) Clause 8 (9) (a) of Regulation 441 of Revised Regulations of Ontario, 1980, as

made by section 1 of Ontario Regulation 137/85, is amended by striking out “one-half” in the fifth line and substituting “one”.

(2) Section 8 of the Regulation, as remade by section 1 of Ontario Regulation 137/85 and amended by section 1 of Ontario Regulation 554/89, is further amended by adding the following subsection:

(11) Despite subsections (1) and (2), an application for assistance may be made to the welfare administrator in a form provided by the Director if, within one year before the date of application, an applicant applied for assistance in Form 1 or 2 or received assistance. O. Reg. 445/90, s. 1 (2).

2.—(1) Subsection 15 (5a) of the Regulation, as made by section 1 of Ontario Regulation 681/86, is revoked.

(2) Subsections 15 (5b), (5c) and (5d) of the Regulation, as made by section 1 of Ontario Regulation 438/89, are revoked.

3. Section 28 of the Regulation, as remade by section 3 of Ontario Regulation 713/87 and amended by section 3 of Ontario Regulation 747/88, section 4 of Ontario Regulation 525/89 and section 4 of Ontario Regulation 687/89, is further amended by adding the following subsection:

(2a) An applicant or recipient who is eligible for an allowance, other than emergency assistance paid under subsection 8 (10) or general assistance under subsection 11 (2) or (2a), in the month of August in any year and who has one or more eligible dependants shall be paid once in that year, in addition to the allowance,

(a) \$61 for each eligible dependant who attains the age of four years or more but who has

not attained the age of thirteen years in that year; and

- (b) \$115 for each eligible dependant who attains the age of thirteen years or more in that year and who is attending school. O. Reg. 445/90, s. 3.

34/90

## CONDOMINIUM ACT

**O. Reg. 446/90.**

Surveys and The Description.

Made—July 27th, 1990.

Filed—August 2nd, 1990.

### REGULATION TO AMEND REGULATION 122 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE CONDOMINIUM ACT

- 1. Clause 7 (1) (c) of Regulation 122 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:**

- (c) show Forms 2 and 2A of Regulation 898 of Revised Regulations of Ontario, 1980 immediately below Form 2;

- 2. The Regulation is amended by adding the following section:**

**10a.** With respect to the items specified in clauses 4 (1) (b), (e) and (f) of the Act, inclusion of those items in a complete submission is sufficient for the examiner to approve a description. O. Reg. 446/90, s. 2.

34/90

## REGISTRY ACT

**O. Reg. 447/90.**

Surveys, Plans and Descriptions of Land.

Made—July 27th, 1990.

Filed—August 2nd, 1990.

### REGULATION TO AMEND REGULATION 898 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE REGISTRY ACT

- 1. Section 3 of Regulation 898 of Revised Regulations of Ontario, 1980 is amended by adding the following subsections:**

(3a) Subsection (3) does not apply to a plan prepared under the *Condominium Act* or to a three-dimensional plan (strata plan) to be registered or deposited under the *Land Titles Act* or the *Registry Act*.

(3b) To approve a plan prepared under the *Condominium Act*, the examiner may rely solely on the Surveyor's Certificates in Forms 1, 3 and 5 of Regulation 122 of Revised Regulations of Ontario, 1980 and the information in Form 6 of that Regulation and endorse the approval in Form 2A on the plan.

(3c) To approve a three-dimensional plan (strata plan) to be registered or deposited under the *Land Titles Act* or the *Registry Act*, the examiner may rely solely on the Surveyor's Certificate (Form 1) and endorse the approval in Form 2B on the plan. O. Reg. 447/90, s. 1.

- 2. Section 23 of the Regulation, as remade by section 4 of Ontario Regulation 169/84, is revoked and the following substituted:**

**23.** Where the approval of the examiner is required to be endorsed on a plan, approval blocks in Forms 2 and 2A, or 2 and 2B, as the case may be, shall be included on the plan. O. Reg. 447/90, s. 2.

- 3. The Regulation is amended by adding the following Forms:**

#### Form 2A

#### EXAMINER'S APPROVAL

Approved in accordance with subsection 3 (3b) of Regulation 898 of Revised Regulations of Ontario, 1980.

.....  
Examiner of Surveys

O. Reg. 447/90, s. 3, part.

**Form 2B****EXAMINER'S APPROVAL**

Approved in accordance with subsection 3 (3c) of Regulation 898 of Revised Regulations of Ontario, 1980.

.....  
Examiner of Surveys

O. Reg. 447/90, s. 3, *part*.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 448/90.**

Crop Insurance Plan—Greenhouse  
Vegetables.

Made—January 12th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 310/89  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Section 4 of the Schedule to Ontario  
Regulation 310/89 is amended by adding  
the following paragraph:**

7. Flood as a result of excessive rain.

**(2) Subsections 13 (1) and (2) of the Schedule  
are revoked and the following substituted:**

- (1) The premium for cucumbers is,

- (a) \$3.60 per hundred square feet where the  
established price is \$3.50 per dozen; or  
(b) \$5.00 per hundred square feet where the  
established price is \$5.00 per dozen.

- (2) The premium for tomatoes is,

- (a) \$3.70 per hundred square feet where the  
established price is \$0.40 per pound; or  
(b) \$5.60 per hundred square feet where the  
established price is \$0.60 per pound.

**(3) Subsection 16 (2) of the Schedule is  
revoked and the following substituted:**

- (2) The insured person shall be deemed to have  
agreed with the revision of the final planting report

made by the Commission under subsection (1) unless  
the insured person notifies the Commission in writing  
that he or she rejects the revision within ten days  
after the Commission notification is served on the  
insured person.

(2a) For the purposes of subsection (2), the Com-  
mission notification may be served by personal deliv-  
ery or by mailing it to the insured person's last known  
address, in which case the notification shall be  
deemed to be served three days after it is mailed.

**(4) Subsections 17 (2) and (3) of the Schedule  
are revoked and the following substituted:**

(2) Where the Commission prepares a final plant-  
ing report under subsection (1), the Commission shall  
serve a copy of the report on the insured person  
either by personal delivery or by mailing it to the  
insured person's last known address.

(3) Every insured person shall pay the premium  
for the crop year in respect of which a final planting  
report is prepared by the Commission within ten days  
after the insured person has been served with a copy  
of it.

(4) A report that is mailed shall be deemed to be  
served three days after it is mailed.

**2. Subparagraph 19 (2) of Form 1 of the  
Regulation is revoked and the following  
substituted:**

(2) Written notice to the insured person shall be  
served by personal delivery or by mailing it to the  
insured person's last known address on file with the  
Commission.

(3) A written notice that is mailed shall be deemed  
to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 12th day of January, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 449/90.**

Crop Insurance Plan—Spring Grain.

Made—June 14th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.



**REGULATION TO AMEND  
REGULATION 223 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Regulation 223 of Revised Regulations of Ontario, 1980, as amended by section 1 of Ontario Regulation 277/88, is revoked and the following substituted:**

(a) “average farm yield” means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

(ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading “COVER-AGE” the following section:**

8a. For the purpose of calculating the average farm yield for spring grain, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

(a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \text{Average} \times 1.3 \right) \right)$$

(b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \text{Average} \times 0.7 \right) - \text{Actual Yield} \right)$$

**(3) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 296/89, is revoked and the following substituted:**

(1) For the purposes of this plan, the established price for spring grain is,

(a) \$0.02 per pound;

(b) \$0.045 per pound; or

(c) the greater of \$0.033 per pound and the floating price per pound for spring grain, as determined under subsection (1a).

**(4) Clause 12 (1a) (b) of the Schedule, as made by section 1 of Ontario Regulation 296/89, is amended by striking out “\$0.004” in the second line and substituting “\$0.002”.**

**(5) Subsection 13 (1), as remade by section 1 of Ontario Regulation 296/89, and subsection 13 (3), as remade by section 1 of Ontario Regulation 91/82, of the Schedule are revoked and the following substituted:**

(1) The total premium is,

(a) \$4.40 per acre where the established price is \$0.02 per pound;

(b) \$9.60 per acre where the established price is \$0.045 per pound; or

(c) \$11.40 per acre where the established price is the floating price per pound.

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(7) Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of a final acreage report made under subsection (1) on the



insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

## **2. Paragraph 2 of Form 2 of the Regulation is amended by adding the following subparagraph:**

(2) For the purpose of calculating actual production, hullless oat yields shall be multiplied by a factor of 1.28 per cent to convert the yields to hulled oat yields, irrespective of whether loss occurs under subparagraph (1).

## **3. The Regulation is amended by adding the following Forms:**

### **Form 1**

#### *Crop Insurance Act (Ontario)*

### **EXTENDED COVERAGE ENDORSEMENT**

1.—(1) This endorsement is in force where the insured person applies for it and pays the prescribed premium.

(2) The coverage in force and indemnity and premiums payable under this endorsement are in addition to any prescribed by the plan.

(3) The conditions of the Schedule and Form 2 apply to this endorsement unless they are inconsistent with it or are specifically excluded under it.

2. An application for extended coverage shall be made by,

- (a) the 1st day of May; or
- (b) the 31st day of October in the case of winter barley,

in the crop year in respect of which it is made.

### **COVERAGE**

3. The insured person may purchase an extra 3 per cent coverage in addition to the coverage determined under section 10 of the Schedule.

4. The maximum indemnity for which the Commission is liable under a contract of insurance under the plan and insurance provided by this endorsement is the amount obtained by adding an additional 3 per

cent to the total guaranteed production determined under section 10 of the Schedule and multiplying this sum by the established price per pound determined under section 12 of the Schedule.

### **PREMIUMS**

5.—(1) The additional premium payable in the crop year for this endorsement is,

- (a) \$0.60 per acre where the established price is \$0.02 per pound;
- (b) \$1.60 per acre where the established price is \$0.045 per pound; or
- (c) \$1.80 per acre where the established price is the floating price per pound.

(2) The premiums prescribed by subsection (1) include payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

(3) Subsection 13 (2) of the Schedule does not apply to this endorsement.

(4) An insured person shall pay a premium deposit of \$1 per acre at the time of application for extended coverage.

O. Reg. 449/90, s. 3, *part*.

### **Form 3**

#### *Crop Insurance Act (Ontario)*

### **EXTENDED COVERAGE ENDORSEMENT**

1.—(1) This endorsement is in force where the insured person purchases a contract of insurance for all perils for spring grain in the Schedule, applies for this endorsement and pays the prescribed premium.

(2) The premiums payable under this endorsement are in addition to any prescribed by the plan.

(3) The conditions of the Schedule and Form 2 apply to this endorsement unless they are inconsistent with it or are specifically excluded under it.

2. In order to qualify for coverage under this endorsement, the insured person shall offer for insurance all land planted to the insured crop that is operated by that person in Ontario.

3.—(1) An insured person may apply under this endorsement for insurance against a loss in production of spring grain resulting from hail damage to a portion of the person's lands.

(2) For the purposes of this endorsement an indemnity for hail damage is payable only where the

portion of land damaged by hail is 5 acres or more in size.

#### APPLICATION

4. An insured person must make an application for extended coverage by the 1st day of May during the crop year in respect of which insurance under this endorsement is requested.

#### COVERAGE

5. The coverage provided under this endorsement shall be the same as that set out in sections 10 and 11 of the Schedule and includes any additional coverage purchased under the extended coverage endorsement in Form 1.

6. For the purposes of this endorsement, an indemnity for hail damage is payable only where 10 per cent or more hail damage has occurred to the insured crop on the portion of land in question.

7. Coverage under this endorsement commences no later than,

- (a) the 1st day of July in a crop year; or
- (b) at a time, as determined by the Commission, when it is too late to replant the insured crop in a crop year,

whichever is the earlier.

#### PREMIUMS

8.—(1) The total premium payable for this endorsement is 9 per cent of the total guaranteed production determined under section 10 of the Schedule multiplied by,

- (a) where the insured person has chosen the floating price, the established price in clause 12 (1) (b) of the Schedule; or
- (b) in all other cases, the established price per bushel determined under section 12 of the Schedule.

(2) The premiums prescribed by subsection (1) include payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

9.—(1) An insured person shall pay a premium deposit of \$1 per acre by the 1st day of May during the crop year in respect of which insurance under this endorsement is requested.

(2) This endorsement may be cancelled by the insured person by notice in writing to the Commission on or before the final date for application in the crop year during which the cancellation is to be effective.

(3) Where the endorsement is cancelled by the insured person after the 1st day of May in a crop year, the Commission shall cancel the contract of insurance for all perils in the Schedule and the extended coverage endorsement in Form 1 if applicable, and shall not refund to the insured person any deposits paid pursuant to these contracts.

(4) The insured person shall pay the premium, less the premium deposit, to the Commission at the time he or she files the final acreage report prescribed by section 15 of the Schedule.

#### EVALUATION OF LOSS

10. The amount of loss respecting the insured acreage for which a claim is made under this endorsement shall be determined as follows:

- 1. The Commission shall determine the number of damaged acres and their potential production.
- 2. The Commission shall determine the percentage of damage to the damaged acres caused by the hail.
- 3. The Commission shall calculate the loss,
  - i. by multiplying the percentage of damage by the lesser of,
    - A. the guaranteed production of the damaged acreage, and
    - B. the potential production of the damaged acreage, and
  - ii. by multiplying the product obtained under subparagraph i by,
    - A. where the insured person has chosen the floating price, the established price in clause 12 (1) (b) of the Schedule, or
    - B. in all other cases, the established price per pound determined under section 12 of the Schedule.

11. The Commission shall determine the amount of loss before the harvesting of the damaged acreage.

12. The indemnity payable with respect to the total insured acreage in the final adjustment of loss under the contract of insurance for all perils in the Schedule shall be determined by subtracting the indemnity paid under this endorsement from the maximum indemnity payable for a loss in production determined under section 11 of the Schedule.

13. If the Commission has substituted the established price in clause 12 (1) (b) of the Schedule for the floating price under sections 8 and 10 of this

endorsement and this substitution results in an overpayment or an underpayment, the Commission may, in making the final adjustment of loss under the contract of insurance for all perils in the Schedule, readjust the indemnity payable with respect to the total insured acreage.

## NOTICE OF LOSS OR DAMAGE

14. The insured person shall notify the Commission in writing within two days of an occurrence of loss or damage to the insured crop and before the harvesting of the insured crop. O. Reg. 449/90, s. 3, *part*.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 14th day of June, 1990.

34/90

## CROP INSURANCE ACT (ONTARIO)

## O. Reg. 450/90.

Crop Insurance Plan—Popping Corn.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

REGULATION TO AMEND  
ONTARIO REGULATION 312/81  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)

1.—(1) Section 3 of the Schedule to Regulation 312/81 is revoked and the following substituted:

3. In this plan,

- (a) "average farm yield" means the average yield of the planted acreage,
  - (i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
  - (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person

has not been enrolled in the plan for ten years;

- (b) "popping corn" means shelled grain corn grown for popping that,
  - (i) when shelled, has a moisture content of not more than 13 per cent, and
  - (ii) is of a merchantable quality suitable for human consumption.

(2) The Schedule to the Regulation is amended by adding after the heading "COVERAGE" the following section:

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \frac{\text{Actual Yield} - \left( \frac{\text{Average Yield} \times 1.3}{\text{Yield}} \right)}{\text{Yield}} \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average Yield} \times 0.7}{\text{Yield}} \right) - \frac{\text{Actual Yield}}{\text{Yield}} \right)$$

(3) Subsection 9 (1) of the Schedule, as amended by section 2 of Ontario Regulation 96/82, is further amended by striking out "tonnes" in the third line and substituting "pounds".

(4) Subsection 9 (5) of the Schedule is amended by striking out "tonnes" in the first line and substituting "pounds".

(5) Section 10 of the Schedule is amended by striking out "tonne" in the fifth line and substituting "pound".

(6) Section 11 of the Schedule, as remade by section 1 of Ontario Regulation 304/89, is revoked and the following substituted:

11. For the purpose of this plan, the established price for popping corn is \$0.15 per pound.

(7) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 304/89, is revoked and the following substituted:



(1) The total premium is \$45.50 per acre.

**(8) Subsection 12 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**2.—(1) Subparagraph 3 (4) of Form 2 of the Regulation is amended by striking out “tonne” in the last line and substituting “pound”.**

(2) Subparagraph 4 (3) of Form 2 is amended by striking out “tonne” in the last line and substituting “pound”.

(3) Subparagraph 4 (5) of Form 2 is amended by striking out “tonne” in the last line and substituting “pound”.

(4) Paragraph 6 of Form 2 is amended by striking out “tonne” in the last line and substituting “pound”.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 7th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 451/90.**

Crop Insurance Plan—Potatoes.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 314/81  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Ontario Regulation 314/81 is revoked and the following substituted:**

(a) “average farm yield” means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

(ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) Subclause 7 (c) (ii) of the Schedule is amended by striking out “1st day of May” in the second line and substituting “1st day of April”.**

**(3) The Schedule to the Regulation is amended by adding after the heading “COVER-AGE” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

(a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \frac{\text{Actual}}{\text{Yield}} - \frac{2}{3} \left( \frac{\text{Actual}}{\text{Yield}} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

(b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \frac{\text{Actual}}{\text{Yield}} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(4) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 301/89, is revoked and the following substituted:**

(1) The total premium for potatoes is,

(a) \$72 per acre where the established price is \$4 per hundredweight; or

(b) \$90 per acre where the established price is \$5 per hundredweight.

**(5) Subsection 12 (3) of the Schedule, as remade by section 2 of Ontario Regulation 97/82, is revoked and the following substituted:**



(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(7) Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of the final acreage report, if one is prepared, on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 7th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 452/90.**

Crop Insurance Plan—Rutabagas.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 315/81  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Ontario Regulation 315/81 is revoked and the following substituted:**

(a) “average farm yield” means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

(ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGE” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

(a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

(b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(3) Section 10 of the Schedule, as remade by section 1 of Ontario Regulation 305/89, is revoked and the following substituted:**

10. The established price for rutabagas is,

(a) \$40 per ton where the premium paid is \$80 per acre; or

(b) \$55 per ton where the premium paid is \$110 per acre.

- (4) **Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 305/89, is revoked and the following substituted:**

(1) the total premium is,

- (a) \$80 per acre; or
- (b) \$110 per acre.

- (5) **Subsection 12 (3) of the Schedule, as remade by section 1 of Ontario Regulation 98/82, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

- (6) **Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

- (7) **Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of the final acreage report, if there is one, on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 7th day of May, 1990.

34/90

## CROP INSURANCE ACT (ONTARIO)

O. Reg. 453/90.

Crop Insurance Plan—Oil Seed.

Made—June 13th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

## REGULATION TO AMEND ONTARIO REGULATION 297/84 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

- 1.—(1) **Clause 3 (a) of the Schedule to Ontario Regulation 297/84, as amended by section 1 of Ontario Regulation 297/88, is revoked and the following substituted:**

(a) "average farm yield" means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

(ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

- (2) **Subsection 11 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purpose of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

- (3) **Subsections 12 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of a final acreage report made under subsection (1) on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

**(4) The Schedule to the Regulation is amended by adding after the heading "PART II—CANOLA" the following section:**

13a. For the purpose of calculating the average farm yield for canola, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \text{Average} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \text{Average} \times 0.7 \right) - \text{Actual Yield} \right)$$

**(5) Section 16 of the Schedule, as remade by section 1 of Ontario Regulation 299/89, is revoked and the following substituted:**

16.—(1) For the purpose of this plan, the established price for canola is,

- (a) \$0.09 per pound;  
 (b) \$0.11 per pound;  
 (c) the floating price per pound determined under subsection (2).

(2) The floating price per pound is the greater of,

- (a) \$0.10 per pound; and  
 (b) the average calculated by the Commission of the daily prices per pound of canola at Hamilton and Windsor, Ontario as determined by the Farm Market News for the period from 15th day of August to 7th day of September in a crop year, minus \$0.002 per pound.

**(6) Subsection 17 (1) of the Schedule, as remade by section 1 of Ontario Regulation 299/89, is revoked and the following substituted:**

(1) The total premium for canola is,

- (a) \$11.80 per acre where the established price is \$0.09 per pound;  
 (b) \$14.60 per acre where the established price is \$0.11 per pound;  
 (c) \$17.80 per acre where the established price is the floating price per pound.

**(7) Subsection 17 (2) of the Schedule is revoked and the following substituted:**

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(8) The Schedule is further amended by adding after the heading "PART III—SOYBEANS" the following section:**

17a. For the purpose of calculating the average farm yield for soybeans, the Commission shall, on an annual basis,

- (a) calculate for each year in the ten-year period a factored yield by applying to the actual yield the factor designated for the year in Table 2; and  
 (b) compare the factored yield in each year with the average of the factored yields and,  
 (i) if the factored yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the factored yield according to the formula,

$$\text{Adjusted Yield} = \text{Factored Yield} - \frac{2}{3} \left( \text{Factored Yield} - \left( \text{Average} \times 1.3 \right) \right)$$

- (ii) if the factored yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the factored yield according to the formula,

$$\text{Adjusted Yield} = \text{Factored Yield} + \frac{2}{3} \left( \left( \text{Average} \times 0.7 \right) - \text{Factored Yield} \right)$$

**(9) Subsection 20 (1) of the Schedule, as remade by section 1 of Ontario Regulation 299/89, is revoked and the following substituted:**



- (1) The established price for soybeans is,
- (a) \$5.80 per bushel;
  - (b) \$7.00 per bushel; or
  - (c) the floating price per bushel determined under subsection (1a).

**(10) Subsection 20 (1a) of the Schedule, as made by section 1 of Ontario Regulation 299/89, is revoked and the following substituted:**

- (1a) The floating price per bushel is the greater of,
- (a) \$6.40 per bushel; and
  - (b) the average calculated by the Commission of the daily prices per bushel of soybeans at Chatham, Ontario as determined by the Farm Market News for the period from 1st day of October to the 21st day of October in a crop year, minus \$0.08 per bushel.

**(11) Subsection 21 (1) of the Schedule, as remade by section 1 of Ontario Regulation 299/89, is revoked and the following substituted:**

- (1) The total premium for soybeans is,
- (a) \$9.00 per acre where the established price is \$5.80 per bushel;
  - (b) \$10.80 per acre where the established price is \$7.00 per bushel; and
  - (c) \$12.40 per acre where the established price is the floating price per bushel.

**(12) Subsection 21 (2) of the Schedule is revoked and the following substituted:**

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**2. The Regulation is amended by adding the following Forms:**

**Form 2**

*Crop Insurance Act* (Ontario)

**EXTENDED COVERAGE ENDORSEMENT**

1.—(1) This endorsement applies only to soybeans.

(2) This endorsement is in force where the insured person applies for it and pays the prescribed premium.

(3) The coverage is in force and indemnity and premiums payable under this endorsement are in addition to any prescribed by the plan.

(4) The conditions of the Schedule and Form 1 apply to this endorsement unless they are inconsistent with it or are specifically excluded under it.

2. An application for extended coverage shall be made by the 1st day of May in the crop year in respect of which it is made.

**COVERAGE**

3. The insured person may purchase an extra 4 or 7 per cent coverage in addition to coverage determined under section 18 of the Schedule.

4. The maximum indemnity for which the Commission is liable under a contract of insurance under the plan and insurance provided by this endorsement is the amount obtained by adding an additional 4 or 7 per cent to the coverage determined under section 18 of the Schedule and multiplying this sum by the established price determined under section 20 of the Schedule.

**PREMIUMS**

5.—(1) The additional premium payable in the crop year for 4 per cent extra coverage is,

- (a) \$2.00 per acre where the established price is \$5.80 per bushel;
- (b) \$2.60 per acre where the established price is \$7.00 per bushel;
- (c) \$3.00 per acre where the established price is the floating price per bushel.

(2) The additional premium payable in the crop year for 7 per cent extra coverage is,

- (a) \$5.00 per acre where the established price is \$5.80 per bushel;
- (b) \$6.00 per acre where the established price is \$7.00 per bushel;
- (c) \$6.80 per acre where the established price is the floating price per bushel.

(3) The premiums prescribed by subsections (1) and (2) include payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

(4) Subsection 21 (3) of the Schedule does not apply to this endorsement.



(5) An insured person shall pay a premium deposit of \$1 per acre at the time of application for extended coverage. O. Reg. 453/90, s. 2, *part*.

### Form 3

#### *Crop Insurance Act (Ontario)*

#### EXTENDED COVERAGE ENDORSEMENT

1.—(1) This endorsement applies to soybeans only.

(2) This endorsement is in force where the insured person purchases a contract of insurance for all perils for soybeans in the Schedule, applies for this endorsement and pays the prescribed premium.

(3) The premiums payable under this endorsement are in addition to any prescribed by the plan.

(4) The conditions of the Schedule and Form 1 apply to this endorsement unless they are inconsistent with it or are specifically excluded under it.

2. In order to qualify for coverage under this endorsement, the insured person shall offer for insurance all land planted to the insured crop that is operated by that person in Ontario.

3.—(1) An insured person may apply under this endorsement for insurance against a loss of production of soybeans resulting from hail damage to a portion of the person's lands.

(2) For the purposes of this endorsement an indemnity for hail damage is payable only where the portion of land damaged by hail is 5 acres or more in size.

#### APPLICATION

4. An insured person must make an application for extended coverage by the 1st day of May during the crop year in respect of which insurance under this endorsement is requested.

#### COVERAGE

5. The coverage provided under this endorsement shall be the same as that set out in sections 18 and 19 of the Schedule and includes any additional coverage purchased under the extended coverage endorsement in Form 2.

6. For the purposes of this endorsement an indemnity for hail damage is payable only where 10 per cent or more hail damage has occurred to the insured crops on the portion of land in question.

7. Coverage under this endorsement commences no later than,

(a) the 1st day of July in a crop year, or

(b) at a time, as determined by the Commission, when it is too late to replant the insured crop in a crop year,

whichever is the earlier.

#### PREMIUMS

8.—(1) The total premium payable for this endorsement is 4 per cent of the total guaranteed production determined under section 18 of the Schedule multiplied by,

(a) where the insured person has chosen the floating price, the established price in clause 20 (1) (b) of the Schedule; or

(b) in all other cases, the established price per bushel determined under section 20 of the Schedule.

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

9.—(1) An insured person shall pay a premium deposit of \$1 per acre by the 1st day of May during the crop year in respect of which insurance under this endorsement is requested.

(2) This endorsement may be cancelled by the insured person by notice in writing to the Commission on or before the final date for application in the crop year during which the cancellation is to be effective.

(3) Where the endorsement is cancelled by the insured person after the 1st day of May in a crop year, the Commission shall cancel the contract of insurance for all perils in the Schedule and the extended coverage endorsement in Form 2 if applicable, and shall not refund to the insured person any deposits paid pursuant to these contracts.

(4) The insured person shall pay the premium, less the premium deposit, to the Commission at the time he or she files the final acreage report prescribed by section 10 of the Schedule.

#### EVALUATION OF LOSS

10. The amount of loss respecting the insured acreage for which a claim is made under this endorsement shall be determined as follows:

1. The Commission shall determine the number of damaged acres and their potential production.

2. The Commission shall determine the percentage of damage to the damaged acres caused by the hail.

3. The Commission shall calculate the loss,

- (i) by multiplying the percentage of damage by the lessor of,

A. the guaranteed production of the damaged acreage, and

B. the potential production of the damaged acreage, and

- (ii) by multiplying the product obtained under subparagraph i by,

A. where the insured person has chose the floating price, the established price in clause 20 (1) (b) of the Schedule; or

B. the established price per bushel determined under section 20 of the Schedule in all other cases.

11. The Commission shall determine the amount of loss before the harvesting of the damaged acreage.

12. The indemnity payable with respect to the total insured acreage in the final adjustment of loss under the contract of insurance for all perils in the Schedule shall be determined by subtracting the indemnity paid under this endorsement from the maximum indemnity payable for a loss in production determined under section 19 of the Schedule.

13. If the Commission has substituted the established price in clause 20 (1) (b) of the Schedule for the floating price under sections 8 and 10 of this endorsement and this substitution results in an overpayment or an underpayment, the Commission may, in making the final adjustment of loss under the contract of insurance for all perils in the Schedule, readjust the indemnity payable with respect to the total insured acreage.

#### NOTICE OF LOSS OR DAMAGE

14. The insured person shall notify the Commission in writing within two days of an occurrence of loss or damage to the insured crop and before the harvesting of the insured crop. O. Reg. 453/90, s. 2, *part*.

3. The Regulation is further amended by numbering the Table as Table 1 and by adding the following Table:

Table 2

Age of Yield	Factor
10	1.13410
9	1.11907
8	1.10448
7	1.09023
6	1.07638
5	1.00000
4	1.00000
3	1.00000
2	1.00000
1	1.00000

O. Reg. 453/90, s. 3.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 13th day of June, 1990.

34/90

### CROP INSURANCE ACT (ONTARIO)

O. Reg. 454/90.

Crop Insurance Plan—Green and Wax Beans.

Made—May 25th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

### REGULATION TO AMEND REGULATION 209 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

1.—(1) Subsection 12 (1) of the Schedule to Regulation 209 of Revised Regulations of Ontario, 1980, as remade by section 4 of Ontario Regulation 289/85, is revoked and the following substituted:

(1) The total premium payable in respect of acreage under contract is \$79 per acre.

(2) Subsection 12 (3) of the Schedule, as remade by section 1 of the Ontario Regu-

**lation 355/84, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**2. Paragraph 6 of Form 1 of the Regulation is amended by adding the following subparagraph:**

(2a) For the purpose of calculating actual production (yield of harvested beans), whole bean yields shall be increased by a factor of 20 per cent, irrespective of whether loss occurs under subparagraph (1).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 25th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 455/90.**

Crop Insurance Plan—Seed Corn.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 220 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 11 (1) (c) of the Schedule to Regulation 220 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 473/89, is revoked and the following substituted:**

(c) a basic premium of \$13.40 per acre.

**(2) Subsection 11 (2) of the Schedule is revoked and the following substituted:**

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 7th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 456/90.**

Crop Insurance Plan—Forage Seeding  
Establishment.

Made—February 26th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 211 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1. Subsection 11 (1) of the Schedule to Regulation 211 of Revised Regulations of Ontario, 1980, as remade by section 2 of Ontario Regulation 302/89, is revoked and the following substituted:**

(1) The total premium is,

- (a) \$4 per acre where the coverage is \$25 per acre;
- (b) \$6 per acre where the coverage is \$25 per acre and the insured person's claims since his or her enrolment in the plan exceed the premiums paid; or
- (c) \$6 per acre where the coverage is \$50 per acre.

**(2) Subsection 14 (2) of the Schedule, as made by section 2 of Ontario Regulation 302/89, is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.



(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**3. Subsections 15 (2) and (3) of the Schedule, as made by section 2 of Ontario Regulation 302/89, are revoked and the following substituted:**

(2) After preparing a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) An insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 26th day of February, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

O. Reg. 457/90.

Crop Insurance Plan—Lima Beans.

Made—June 13th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 212 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

1. Subsection 12 (3) of the Schedule to Regulation 212 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 13th day of June, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

O. Reg. 458/90.

Crop Insurance Plan—Sweet Corn.

Made—June 13th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 225 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

1. Subsection 12 (4) of the Schedule to Regulation 225 of Revised Regulations of Ontario, 1980, as remade by section 3 of Ontario Regulation 362/84, is revoked and the following substituted:

(4) The premiums prescribed by subsections (1) and (2) include payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 13th day of June, 1990.

34/90



**CROP INSURANCE ACT (ONTARIO)****O. Reg. 459/90.**

Crop Insurance Plan—Peanuts.

Made—June 13th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 606/88  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1. Subsection 13 (3) of the Schedule to Ontario Regulation 606/88 is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 13th day of June, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)****O. Reg. 460/90.**

Crop Insurance Plan—Asparagus.

Made—November 1st, 1989.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 353/84  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Section 9 of the Schedule to Ontario Regulation 353/84 is revoked and the following substituted:**

9.—(1) The initial coverage provided under a contract of insurance shall be 70 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person.

(2) If there is no claim in a year, the coverage provided under a contract of insurance for the next following year shall be as follows,

- (a) where the coverage for the year in which there was no claim was 65 per cent, 70 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (b) where the coverage for the year in which there was no claim was 70 per cent, 75 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (c) where the coverage for the year in which there was no claim was 75 per cent, 80 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (d) where the coverage for the year in which there was no claim was 80 per cent, 80 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person.

(3) If there is a claim in a year, the coverage provided under a contract of insurance for the next following year shall be as follows,

- (a) where the coverage for the year in which there was a claim was 80 per cent, 75 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (b) where the coverage for the year in which there was a claim was 75 per cent, 70 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (c) where the coverage for the year in which there was a claim was 70 per cent, 65 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person;
- (d) where the coverage for the year in which there was a claim was 65 per cent, 65 per cent of the average farm yield in pounds of the total producing acres of asparagus grown by the insured person.

(4) Despite subsection (3), if the amount of a claim paid in a year is less than one-half of that year's total premium, the coverage for the following year shall remain unchanged.

(5) The number of pounds calculated for the purposes of subsections (1), (2) and (3) constitutes the total guaranteed production under a contract of insurance.

(6) If the Commission is of the opinion that the insured person cannot provide adequate production records, it shall determine the average farm yield on the basis of such other acreage production records as it considers appropriate.

**(2) Subsection 12 (1) of the Schedule, as amended by section 1 of Ontario Regulation 659/87, is revoked and the following substituted:**

(1) The total premium is \$26 per acre.

**(3) Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report and adjustment of premium made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision and adjustment within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(4) Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted therefor:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A mailed report is considered served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 1st day of November, 1989.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 461/90.**

Crop Insurance Plan—Hay and Pasture.

Made—October 25th, 1989.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 210 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 6 (c) of the Schedule to Regulation 210 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:**

(c) an application for insurance; and

**(2) Clause 7 (a) of the Schedule is revoked.**

**(3) Section 11 of the Schedule, as remade by section 2 of Ontario Regulation 145/84, is revoked and the following substituted:**

11.—(1) The Commission shall calculate the premium payable in the crop year by applying to the coverage selected for each acre of the insured crop a premium rate computed in accordance with the following formula:

$$4\% (100 + A)$$

in which "A" is the surcharge or discount computed in accordance with subsection (2).

(2) The Commission shall calculate the surcharge or discount using the following formula:

$$\left[ \frac{B \left( \frac{C}{D} - 1 \right)}{15} \right] 100$$

in which,

"B" is the lesser of,

- (i) the number of years the insured person has been enrolled in the plan, and
- (ii) nine years, and

"C" is the insured person's loss to coverage ratio, and

"D" is the plan's loss to coverage ratio.

(3) The insured person's loss to coverage ratio shall be calculated by dividing the total dollar value of the payments made by the Commission to the insured person for the number of years he or she has been enrolled in the plan by the total dollar value of the insured person's coverage for the number of years he or she has been enrolled in the plan, multiplied by 100.

(4) The plan's loss to coverage ratio shall be calculated by dividing the total dollar value of the payments made by the Commission in respect of all claims made by insured persons under the plan for the number of years the plan has been in effect, by the total dollar value of coverage extended by the plan for the number of years it has been in effect, multiplied by 100.

(5) The premium calculated in accordance with subsections (1), (2), (3) and (4) excludes payments in respect of premiums made by the Government of Canada under the *Crop Insurance Act* (Canada).

## 2. Form 2 of the Regulation is revoked.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 25th day of October, 1989.

34/90

## CROP INSURANCE ACT (ONTARIO)

O. Reg. 462/90.

Crop Insurance Plan—Winter Wheat.

Made—November 17th, 1989.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

## REGULATION TO AMEND REGULATION 229 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

1.—(1) Clause 3 (c) of the Schedule to Regulation 229 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 201/89, is revoked and the following substituted:

(c) "winter wheat" means soft white winter wheat and hard red winter wheat produced in Ontario.

(2) Subsection 8 (2) of the Schedule is amended by striking out "20th" in the third line and substituting "31st".

(3) Subsection 11 (1) of the Schedule, as remade by section 1 of Ontario Regulation 201/89, is revoked and the following substituted:

(1) For the purposes of this plan, the grower may select an established price per bushel for winter wheat of.

(a) \$2.75;

(b) \$3.25; or

(c) \$3.75.

(4) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 201/89, is revoked and the following substituted:

(1) The total premium is,

(a) \$6.50 per acre where the established price is \$2.75 per bushel;

(b) \$7.60 per acre where the established price is \$3.25 per bushel; or

(c) \$8.80 per acre where the established price is \$3.75 per bushel.

(5) Subsection 15 (2) of the Schedule is revoked and the following substituted:

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

(6) Subsections 16 (2) and (3) of the said Schedule are revoked and the following substituted therefor:

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission



shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A mailed report is considered served three days after it is mailed.

**2. Paragraph 23 (2) of Form 1 of the Regulation is revoked and the following substituted:**

(2) Written notice to the insured person shall be served by personal delivery or by mailing it to the insured person's last known address on file with the Commission.

(3) Where a written notice is mailed, it shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 17th day of November, 1989.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 463/90.**

Crop Insurance Plan—Sour Cherries.

Made—December 7th, 1989.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 221 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Section 9 of the Schedule to Regulation 221 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:**

9.—(1) The initial coverage provided under a contract of insurance shall be 66 per cent of the average

yield in pounds as determined by the Commission multiplied by the established price.

(2) If there is no claim in a year, the coverage provided under a contract of insurance for the next following year shall be as follows:

- (a) where the coverage for the year in which there was no claim was 63 per cent, 66 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (b) where the coverage for the year in which there was no claim was 66 per cent, 68 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (c) where the coverage for the year in which there was no claim was 68 per cent, 70 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (d) where the coverage for the year in which there was no claim was 70 per cent, 73 per cent of the average yield in pounds as determined by the Commission multiplied by the established price; and
- (e) where the coverage for the year in which there was no claim was 73 per cent, 73 per cent of the average yield in pounds as determined by the Commission multiplied by the established price.

(3) If there is a claim in a year, the coverage provided under a contract of insurance for the next following year shall be as follows:

- (a) where the coverage for the year in which there was a claim was 73 per cent, 70 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (b) where the coverage for the year in which there was a claim was 70 per cent, 68 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (c) where the coverage for the year in which there was a claim was 68 per cent, 66 per cent of the average yield in pounds as determined by the Commission multiplied by the established price;
- (d) where the coverage for the year in which there was a claim was 66 per cent, 63 per cent of the average yield in pounds as determined by the Commission multiplied by the established price; and



- (e) where the coverage for the year in which there was a claim was 63 per cent, 63 per cent of the average yield in pounds as determined by the Commission multiplied by the established price.

(4) The number of pounds calculated for the purposes of subsections (1), (2) and (3) constitutes the total guaranteed production under a contract of insurance.

**(2) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 798/83, is revoked and the following substituted:**

- (1) The total premium payable in the crop year is,
- (a) where the level of coverage is 73 per cent, 20 per cent of the guaranteed production in pounds multiplied by the established price;
  - (b) where the level of coverage is 70 per cent, 21 per cent of the guaranteed production in pounds multiplied by the established price;
  - (c) where the level of coverage is 68 per cent, 22 per cent of the guaranteed production in pounds multiplied by the established price;
  - (d) where the level of coverage is 66 per cent, 23 per cent of the guaranteed production in pounds multiplied by the established price; and
  - (e) where the level of coverage is 63 per cent, 24 per cent of the guaranteed production in pounds multiplied by the established price.

**2. Subparagraph 17 (2) of Form 1 of the Regulation is revoked and the following substituted:**

(2) Written notice to the insured person shall be served by personal delivery or by mailing it to the insured person's last known address on file with the Commission.

(3) A written notice that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 7th day of December, 1989.

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 464/90.**

Crop Insurance Plan—Pears.

Made—December 1st, 1989.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 216 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1. Subsection 12 (1) of the Schedule to Regulation 216 of Revised Regulations of Ontario, 1980, as remade by section 1 of Ontario Regulation 119/89, is revoked and the following substituted:**

(1) The total premium payable in the crop year is as follows:

- (a) where the coverage is 80 per cent, 13 per cent of the guaranteed production in pounds multiplied by the established price;
- (b) where the coverage is 78 per cent, 14 per cent of the guaranteed production in pounds multiplied by the established price;
- (c) where the coverage is 76 per cent, 15 per cent of the guaranteed production in pounds multiplied by the established price;
- (d) where the coverage is 73 per cent, 16 per cent of the guaranteed production in pounds multiplied by the established price; and
- (e) where the coverage is 70 per cent, 17 per cent of the guaranteed production in pounds multiplied by the established price.

**2. Subparagraph 17 (2) of Form 1 of the Regulation is revoked and the following substituted:**

(2) Written notice to the insured person shall be served by personal delivery or by mailing it to the insured person's last known address on file with the Commission.

(3) A written notice that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 1st day of December, 1989.

34/90

### CROP INSURANCE ACT (ONTARIO)

#### O. Reg. 465/90.

Crop Insurance Plan—Grapes.

Made—January 17th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

### REGULATION TO AMEND REGULATION 208 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE

### CROP INSURANCE ACT (ONTARIO)

1.—(1) Subsection 9 (4) of the Schedule to Regulation 208 of Revised Regulations of Ontario, 1980, as made by section 1 of Ontario Regulation 68/88, is revoked.

(2) Subsection 10 (1) of the Schedule, as remade by section 1 of Ontario Regulation 68/88, is amended by striking out the definition of “negotiated price”.

(3) Subsections 10 (2) and (3) of the Schedule, as remade by section 1 of Ontario Regulation 120/89, are revoked and the following substituted:

(2) The established prices for each class are as follows:

<i>Class</i>	<i>Price per tonne</i>
1	\$ 278
1A	198
2	227
3	265
3A	221
4	241
5	489
5A	352
5B	500
5C	299
6	552
6A	436
6B	450

6C

261

7

575

8

345

8A

593

9

823

9A

903

9B

1,666

9C

1,070

10

549

2. Subparagraph 17 (2) of Form 1 of the Regulation is revoked and the following substituted:

(2) Written notice to the insured person shall be served by personal delivery or by mailing it to the insured person's last known address on file with the Commission.

(3) A written notice that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 17th day of January, 1990.

34/90

### CROP INSURANCE ACT (ONTARIO)

#### O. Reg. 466/90.

Crop Insurance Plan—Cucumbers.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

### REGULATION TO AMEND ONTARIO REGULATION 462/84 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

1.—(1) Clause 3 (a) of the Schedule to Ontario Regulation 462/84 is revoked and the following substituted:

(a) “average farm yield” means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed

on the basis of the acreage production records of the insured person, or

- (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading "COVER-AGE" the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \text{Average} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \text{Average} \times 0.7 \right) - \text{Actual Yield} \right)$$

**(3) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 226/88, is revoked and the following substituted:**

- (1) The total premium is \$52 per acre.

**(4) Subsection 12 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(5) Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(6) Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of the final acreage report, if one is prepared, on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 7th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

O. Reg. 467/90.

Crop Insurance Plan—Red Spring Wheat.

Made—April 4th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 607/88  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Section 3 of the Schedule to Ontario Regulation 607/88 is revoked and the following substituted:**

3. In this plan,

"average farm yield" means the average yield of the planted acreage,

- (a) for the ten-year period immediately preceding the current year computed on the basis



of the acreage production records of the insured person, or

- (b) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

“red spring wheat” means Canada Eastern red spring wheat produced in Ontario for milling and eligible for a grade under the *Canada Grains Act* (Canada).

**(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGE” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(3) Subsection 11 (1) of the Schedule, as remade by section 1 of Ontario Regulation 308/89, is revoked and the following substituted:**

(1) For the purposes of this plan, the established price for red spring wheat is,

- (a) \$2.80 per bushel; or  
(b) \$4.20 per bushel.

**(4) Subsection 13 (1) of the Schedule, as remade by section 1 of Ontario Regulation 308/89, is revoked and the following substituted:**

(1) The total premium for red spring wheat is,

- (a) \$9.60 per acre where the established price is \$2.80 per bushel; or

- (b) \$14.20 per acre where the established price is \$4.20 per bushel.

**(5) Subsection 13 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(7) Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 4th day of April, 1990.



**CROP INSURANCE ACT (ONTARIO)****O. Reg. 468/90.**

Crop Insurance Plan—Honey.

Made—May 25th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 605/88  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) The definition of “average farm yield” in section 3 of the Schedule to Ontario Regulation 605/88 is revoked and the following substituted:**

“average farm yield” means the average of previous yields per insurable hive,

- (a) for the ten-year period immediately preceding the current year computed on the basis of the hive production records of the insured person, or
- (b) for the number of years of enrolment in the plan computed on the basis of the hive production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGE” the following section:**

9a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(3) Section 11 of the Schedule, as remade by**

**section 1 of Ontario Regulation 313/89, is revoked and the following substituted:**

11. For the purpose of this plan, the established price for honey is,

- (a) \$0.50 per pound; or
- (b) \$0.60 per pound.

**(4) Subsection 13 (1) of the Schedule, as remade by section 1 of Ontario Regulation 313/89, is revoked and the following substituted:**

(1) The total premium for honey is,

- (a) \$4.60 per hive where the established price is \$0.50 per pound; or
- (b) \$5.60 per hive where the established price is \$0.60 per pound.

**(5) Subsection 13 (2) of the Schedule is revoked and the following substituted:**

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Section 15 of the Schedule is amended by adding the following subsection:**

(1a) Weak hives shall not be included in the calculation of the total number of insurable hives made under subsection (1).

**(7) Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the correction of the hive report made under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the correction within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(8) Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of a final hive report made under subsection (1) on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final hive report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

**2. Paragraph 9 of Form 1 of the Regulation is amended by adding the following subparagraph:**

(3) For the purpose of calculating actual production, comb honey yields shall be multiplied by a factor of 3, irrespective of whether loss occurs under subparagraph (1).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 25th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 469/90.**

Crop Insurance Plan—Carrots.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 217/82  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Ontario Regulation 217/82 is revoked and the following substituted:**

- (a) "average farm yield" means the average yield of the planted acreage,
  - (i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
  - (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circum-

stances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading "COVERAGES" the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(3) Section 10 of the Schedule, as remade by section 1 of Ontario Regulation 300/89, is revoked and the following substituted:**

10. For the purpose of this plan, the established price for carrots is,

- (a) \$1.60 per bushel; or
- (b) \$2.00 per bushel.

**(4) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 300/89, is revoked and the following substituted:**

(1) Subject to subsection (2), the total premium is,

- (a) \$176 per acre where the established price is \$1.60 per bushel; or
- (b) \$220 per acre where the established price is \$2 per bushel.

**(5) Subsection 12 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(7) Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of the final acreage report, if one is prepared, on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 7th day of May, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 470/90.**

Crop Insurance Plan—Red Beets.

Made—April 27th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 434/88  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) The definition of “average farm yield” in section 3 of the Schedule to Ontario Regulation 434/88 is revoked and the following substituted:**

“average farm yield” means the average yield of the planted acreage,

- (a) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
- (b) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGERAGE” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

- (3) **Subsection 13 (1) of the Schedule, as amended by section 1 of Ontario Regulation 298/89, is further amended by striking out “\$24” in the second line and substituting “\$20.40”.**

- (4) **Subsection 13 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

- (5) **Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing



that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(6) Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 27th day of April, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 471/90.**

Crop Insurance Plan—Sunflowers.

Made—June 13th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
ONTARIO REGULATION 478/87  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1 Subsection 12 (2) of the Schedule to Ontario Regulation 478/87 is revoked and the following substituted:**

(2) The premium prescribed by subsection (1) includes payments in respect of premiums made by

the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 13th day of June, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 472/90.**

Crop Insurance Plan—Peppers.

Made—April 27th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 218 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Regulation 218 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:**

- (a) "average farm yield" means the average yield of the planted acreage,
  - (i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
  - (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading "COVERAGE" the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year



period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \text{Average} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \text{Average} \times 0.7 \right) - \text{Actual Yield} \right)$$

**(3) Subsection 11 (1) of the Schedule, as made by section 1 of Ontario Regulation 95/82, is revoked and the following substituted:**

- (1) The established price for peppers is,

- (a) \$160 per ton; or  
(b) \$200 per ton.

**(4) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 306/89, is revoked and the following substituted:**

- (1) The premium for peppers is,

- (a) \$136 per acre where the established price is \$160 per ton; and  
(b) \$170 per acre where the established price is \$200 per ton.

**(5) Subsection 12 (3) of the Schedule, as remade by section 1 of Ontario Regulation 306/89, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(6) Subsection 16 (2) of the Schedule, as made by section 5 of Ontario Regulation 404/81, is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days

after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(7) Subsections 17 (2) and (3) of the Schedule, as made by section 5 of Ontario Regulation 404/81, are revoked and the following substituted:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 27th day of April, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

O. Reg. 473/90.

Crop Insurance Plan—Peas.

Made—April 27th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 217 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Subsection 12 (1) of the Schedule to Regulation 217 of Revised Regulations of Ontario, 1980, as remade by section 1 of**

**Ontario Regulation 443/89, is revoked and the following substituted:**

(1) The total premium payable in respect of acreage under contract to a processor is \$65 per acre.

**(2) Subsection 12 (3) of the Schedule, as remade by section 3 of Ontario Regulation 299/85, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(3) Clause 13 (a) of the Schedule, as remade by section 4 of Ontario Regulation 299/85, is revoked and the following substituted:**

- (a) in the County of Essex and in the Township of Romney and Tilbury East in the County of Kent, the 24th day of May;

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 27th day of April, 1990.

34/90

**CROP INSURANCE ACT (ONTARIO)**

**O. Reg. 474/90.**

Crop Insurance Plan—Corn.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 205 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
CROP INSURANCE ACT (ONTARIO)**

**1.—(1) Clause 3 (a) of the Schedule to Regulation 205 of Revised Regulations of Ontario, 1980, as amended by section 1 of Ontario Regulation 276/88, is revoked and the following substituted:**

(a) “average farm yield” means the average yield of the planted acreage,

(i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

(ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

**(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGER” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis,

(a) calculate for each year in the ten-year period a factored yield by applying to the actual yield the factor designated for that year in Table 2; and

(b) compare the factored yield in each year with the average of the factored yields and,

(i) if the factored yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the factored yield according to the formula,

$$\text{Adjusted Yield} = \text{Factored Yield} - \frac{2}{3} \left( \text{Factored Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

(ii) if the factored yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the factored yield according to the formula,

$$\text{Adjusted Yield} = \text{Factored Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Factored}}{\text{Yield}} \right)$$

**(3) Subsection 11 (1) of the Schedule, as remade by section 1 of Ontario Regulation 297/89, is revoked and the following substituted:**

(1) For the purposes of this plan, the established price for grain corn is,

(a) \$2.20 per bushel;

(b) \$2.65 per bushel; or

(c) the floating price per bushel determined under subsection (1a).

**(4) Subsection 11 (1a) of the Schedule, as made by section 1 of Ontario Regulation 297/89, is revoked and the following substituted:**

- (1a) The floating price per bushel is the greater of,
- (a) \$2.425 per bushel; and
  - (b) the average calculated by the Commission of the daily prices per bushel of grain corn at Hensall, Ontario as determined by the *Farm Market News* for the period from the 21st day of October to the 11th day of November in a crop year, minus \$0.27 per bushel.

**(5) Subsection 12 (1) of the Schedule, as remade by section 1 of Ontario Regulation 297/89, is revoked and the following substituted:**

- (1) The total premium is,
- (a) \$9.60 per acre where the established price is \$2.20 per bushel;
  - (b) \$11.60 per acre where the established price is \$2.65 per bushel; or
  - (c) \$12.80 per acre where the established price is the floating price per bushel.

**(6) Subsection 12 (3) of the Schedule, as remade by section 1 of Ontario Regulation 89/82, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(7) Subsection 15 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(8) Subsections 16 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of the final acreage report, if one is prepared, on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

**2. The Regulation is amended by numbering the Table as Table 1 and by adding the following Table:**

TABLE 2

Age of Yield	Factor
10	1.14630
9	1.12978
8	1.11368
7	1.09807
6	1.08292
5	1.00000
4	1.00000
3	1.00000
2	1.00000
1	1.00000

O. Reg. 474/90, s. 2.

**3. The Regulation is further amended by adding the following Form:**

**Form 1**

*Crop Insurance Act* (Ontario)

**EXTENDED COVERAGE ENDORSEMENT**

1.—(1) This endorsement is in force where the insured person applies for it and pays the prescribed premium.

(2) The coverage is in force and indemnity and premiums payable under this endorsement are in addition to any prescribed by the plan.

(3) The terms and conditions of the Schedule and Form 2 shall apply to this endorsement unless they are inconsistent with it or are specifically excluded under it.

2. An application for extended coverage shall be made by the 1st day of May in the crop year in respect of which it is made.



## COVERAGE

3. The insured person may purchase an extra 5 or 10 per cent coverage in addition to the coverage determined under section 9 of the Schedule.

4. The maximum indemnity for which the Commission is liable under a contract of insurance under the Plan and insurance provided by this endorsement is the amount obtained by adding an additional 5 or 10 per cent to the coverage determined under section 9 of the Schedule and multiplying this sum by the established price determined under section 11 of the Schedule.

## PREMIUMS

5.—(1) The additional premium payable in the crop year for 5 per cent extra coverage is,

- (a) \$2.80 per acre where the established price is \$2.20 per bushel;
- (b) \$3.20 per acre where the established price is \$2.65 per bushel;
- (c) \$3.60 per acre where the established price is the floating price per bushel.

(2) The additional premium payable in the crop year for 10 per cent extra coverage is,

- (a) \$7.20 per acre where the established price is \$2.20 per bushel;
- (b) \$8.60 per acre where the established price is \$2.65 per bushel;
- (c) \$9.40 per acre where the established price is the floating price per bushel.

(3) The premiums prescribed by subsections (1) and (2) include payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

(4) Subsection 12 (2) of the Schedule shall not apply to this endorsement.

(5) An insured person shall pay a premium deposit of \$1.00 per acre at the time of application for extended coverage.

(6) The minimum premium deposit payable by an insured person in the crop year under this endorsement is \$25.00. O. Reg. 474/90, s. 3.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 7th day of May, 1990.

34/90

## CROP INSURANCE ACT (ONTARIO)

O. Reg. 475/90.

Crop Insurance Plan—Coloured Beans.

Made—April 4th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

### REGULATION TO AMEND REGULATION 204 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

1.—(1) Clause 3 (a) of the Schedule to Regulation 204 of Revised Regulations of Ontario, 1980, as amended by section 1 of Ontario Regulation 223/88, is revoked and the following substituted:

- (a) “average farm yield” means the average yield of the planted acreage,
  - (i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
  - (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

(2) The Schedule to the Regulation is amended by adding after the heading “COVERAGE” the following section:

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,



$$\frac{\text{Adjusted}}{\text{Yield}} = \frac{\text{Actual}}{\text{Yield}} - \frac{2}{3} \left( \frac{\text{Actual}}{\text{Yield}} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\frac{\text{Adjusted}}{\text{Yield}} = \frac{\text{Actual}}{\text{Yield}} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

- (3) **Subsection 13 (3) of the Schedule, as remade by section 1 of Ontario Regulation 92/82, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

- (4) **Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

- (5) **Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 4th day of April, 1990.

34/90

## CROP INSURANCE ACT (ONTARIO)

O. Reg. 476/90.

Crop Insurance Plan—White Beans.

Made—April 4th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

## REGULATION TO AMEND REGULATION 228 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

- 1.—(1) **Clause 3 (a) of the Schedule to Regulation 228 of Revised Regulations of Ontario, 1980, as amended by section 1 of Ontario Regulation 189/88, is revoked and the following substituted:**

- (a) "average farm yield" means the average yield of the planted acreage,

- (i) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or

- (ii) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

- (2) **The Schedule to the Regulation is amended by adding after the heading "COVERAGES" the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on an annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\frac{\text{Adjusted}}{\text{Yield}} = \frac{\text{Actual}}{\text{Yield}} - \frac{2}{3} \left( \frac{\text{Actual}}{\text{Yield}} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

- (3) **Subsection 13 (3) of the Schedule, as remade by section 4 of Ontario Regulation 93/82, is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payments in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

- (4) **Subsection 16 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

- (5) **Subsections 17 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) Where the Commission prepares a final acreage report under subsection (1), the Commission shall serve a copy of the report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
Chairman

DANIELA SCERNI  
Secretary

Dated at Toronto, this 4th day of April, 1990.

## CROP INSURANCE ACT (ONTARIO)

O. Reg. 477/90.

Crop Insurance Plan—Onions.

Made—May 7th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

### REGULATION TO AMEND ONTARIO REGULATION 541/86 MADE UNDER THE CROP INSURANCE ACT (ONTARIO)

- 1.—(1) **The definition of “average farm yield” in section 3 of the Schedule to Ontario Regulation 541/86 is revoked and the following substituted:**

“average farm yield” means the average yield of the planted acreage,

- (a) for the ten-year period immediately preceding the current year computed on the basis of the acreage production records of the insured person, or
- (b) for the number of years of enrolment in the plan computed on the basis of the acreage production records of the insured person or on another basis that is reasonable in the circumstances, where the insured person has not been enrolled in the plan for ten years;

- (2) **The Schedule to the Regulation is amended by adding after the heading “COVERAGES” the following section:**

8a. For the purpose of calculating the average farm yield, the Commission shall, on the annual basis, compare the actual yield in each year of the ten-year period used to calculate the average farm yield with the average farm yield itself and,

- (a) if the actual yield in a year exceeds the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} - \frac{2}{3} \left( \text{Actual Yield} - \left( \frac{\text{Average}}{\text{Yield}} \times 1.3 \right) \right)$$

- (b) if the actual yield in a year falls short of the insured person's ten year average by more than 30 per cent, shall adjust the actual yield according to the formula,

$$\text{Adjusted Yield} = \text{Actual Yield} + \frac{2}{3} \left( \left( \frac{\text{Average}}{\text{Yield}} \times 0.7 \right) - \frac{\text{Actual}}{\text{Yield}} \right)$$

**(3) Subsection 11 (3) of the Schedule is revoked and the following substituted:**

(3) The premium prescribed by subsection (1) includes payment in respect of premiums made by the Province of Ontario and the Government of Canada under the *Crop Insurance Act* (Canada).

**(4) Subsection 14 (2) of the Schedule is revoked and the following substituted:**

(2) The insured person shall be deemed to have agreed with the revision of the final acreage report made by the Commission under subsection (1) unless the insured person notifies the Commission in writing that he or she rejects the revision within ten days after the Commission notification is served on the insured person.

(2a) For the purposes of subsection (2), the Commission notification may be served by personal delivery or by mailing it to the insured person's last known address, in which case the notification shall be deemed to be served three days after it is mailed.

**(5) Subsections 15 (2) and (3) of the Schedule are revoked and the following substituted:**

(2) The Commission shall serve a copy of a final acreage report on the insured person either by personal delivery or by mailing it to the insured person's last known address.

(3) Every insured person shall pay the premium for the crop year in respect of which a final acreage report is prepared by the Commission within ten days after the insured person has been served with a copy of it.

(4) A report that is mailed shall be deemed to be served three days after it is mailed.

THE CROP INSURANCE COMMISSION OF ONTARIO:

GORDON HILL  
*Chairman*

DANIELA SCERNI  
*Secretary*

Dated at Toronto, this 7th day of May, 1990.

34/90

**FARM PRODUCTS MARKETING ACT**

**O. Reg. 478/90.**

Grapes for Processing—Plan.

Made—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION TO AMEND  
REGULATION 363 OF  
REVISED REGULATIONS  
OF ONTARIO, 1980  
MADE UNDER THE  
FARM PRODUCTS MARKETING ACT**

**1.—(1) Subsection 7 (1) of the Schedule to Regulation 363 of Revised Regulations of Ontario, 1980 is revoked and the following substituted:**

(1) Producers are divided into the following four districts:

1. District 1, consisting of the Town of Niagara-on-the Lake, in The Regional Municipality of Niagara.
2. District 2, consisting of the City of St. Catharines and the Judicial District of Niagara South, in The Regional Municipality of Niagara.
3. District 3, consisting of the Town of Lincoln, in The Regional Municipality of Niagara.
4. District 4, consisting of the Town of Grimsby and the Township of West Lincoln, in The Regional Municipality of Niagara and The Regional Municipality of Hamilton-Wentworth.

**(2) Section 10 of the Schedule is amended by striking out "fifty" in the fourth line and substituting "thirty".**

**(3) Section 11 of the Schedule is revoked and the following substituted:**

11. On or before the 30th day of April in each year, The Grape Growers' Committee may elect producer-members to the local board from the districts mentioned in subsection 7 (1) on the following basis:

1. Two producer-members from District 1.
2. One producer-member from District 2.
3. Two producer-members from District 3.
4. One producer-member from District 4.
5. One producer-member as a director at large from any of the districts mentioned in subsection 7 (1).

34/90



**FARM INCOME STABILIZATION ACT****O. Reg. 479/90.**

Fresh Market Potato Stabilization,

1989-1992—Plan.

Made—January 29th, 1990.

Approved—July 27th, 1990.

Filed—August 3rd, 1990.

**REGULATION MADE UNDER THE  
FARM INCOME STABILIZATION ACT****FRESH MARKET POTATO STABILIZATION,  
1989-1992—PLAN****1. In this Regulation,**

“board” means The Ontario Fresh Potato Growers’ Marketing Board established under the Farm Products Marketing Act;

“plan” means the plan established under section 2;

“potatoes” means potatoes produced in Ontario and marketed during the term referred to in section 3;

“production unit” means,

- (a) one or more farms operated by a person, or
- (b) one or more farms operated by two or more persons who have a common interest in the outcome of the operation;

“sales year” means a period from the 1st day of July to the 30th day of June in the next year. O. Reg. 479/90, s. 1.

2. There is hereby established a voluntary plan for farm income stabilization for potatoes to be known as the “Ontario Fresh Market Potato Stabilization Plan, 1989-1992. O. Reg. 479/90, s. 2.

3.—(1) The term for this plan is three sales years with the first sales year commencing in 1989.

(2) The plan ceases to apply as soon as a plan for potatoes is established under the National Tripartite Stabilization Plan, implemented by agreement between the Minister of Agriculture for Canada and the Ontario Minister of Agriculture and Food and authorized in Ontario by Order in Council. O. Reg. 479/90, s. 3.

4.—(1) An application for enrolment in the plan may be made to the Commission by,

- (a) the owner and operator of a farm on which potatoes are produced;
- (b) the tenant and operator of a farm on which potatoes are produced;

- (c) a person engaged in the operation of a production unit.

(2) An application under subsection (1) shall be made for sales years commencing in 1989, 1990 or 1991 by a date in each sales year determined by the Commission. O. Reg. 479/90, s. 4.

5. It is a condition of continued enrolment in the plan that each person enrolled,

- (a) retain and, at the request of the Commission, make available to the Commission or its agent all sales and weigh receipts, signed by the buyer and the seller, conforming to the records of the board through which the potatoes are marketed, in respect of all potatoes for which payment is claimed under the plan;
- (b) maintain a record of all potatoes sold that includes the names of the buying agent and seller, the date of the sale, the date and location of the delivery, the quantity and the price;
- (c) after each sales year, complete and file with the Commission, on a form provided by the Commission for that purpose, a sales report for that year which includes the total actual sales in hundredweight of all potatoes to which the plan applies;
- (d) disclose to the Commission the name and address of every person engaged in the operation of the production unit;
- (e) be the grower of the potatoes in respect of which payment is claimed under the plan;
- (f) market the potatoes during the sales year for which payment is claimed; and
- (g) pay licence fees to the board by the 30th day of July in each sales year for all potatoes in respect of which an application for payment is made. O. Reg. 479/90, s. 5.

6.—(1) The index to be used in any year in calculating the stabilization price of potatoes under clause 6 (1) (e) of the Act shall be the difference determined by subtracting from the cash-cost of producing the potatoes in that year the average cash-cost of producing potatoes for the immediately preceding five years.

(2) The stabilization price in any year for potatoes under this plan equals 95 per cent of the base price determined by the Commission added to the index for that year. O. Reg. 479/90, s. 6.

7. A claim for payment under this plan shall be made not later than two years after the expiration of the sales year in respect of which the claim is made. O. Reg. 479/90, s. 7.



8. Payments under this plan shall be made not later than one year after the receipt of an eligible claim for payment. O. Reg. 479/90, s. 8.

9. Every payment under the plan to a person who was eligible for enrolment for a sales year commencing in 1989 but whose application is made in the sales year commencing in 1990 or 1991 shall be reduced by 20 per cent. O. Reg. 479/90, s. 9.

10.—(1) Five acres of potatoes produced and marketed by a production unit in a sales year is prescribed as the minimum level of marketing necessary by a person to be enrolled in the plan and to continue to be enrolled in the plan.

(2) Forty-eight thousand hundredweight of potatoes produced and marketed by a production unit in a sales year is prescribed as the maximum level of marketing for which a person enrolled in the plan is eligible to receive payments under the plan.

(3) A person enrolled in the plan shall only be paid for potatoes marketed through the board and for which all licence fees have been paid by the 30th day of July of each sales year. O. Reg. 479/90, s. 10.

11. Fees payable to the Commission by a production unit,

- (a) are payable when the Commission makes a payment under the plan to the production unit; and
- (b) shall be deducted from any payment payable under the plan by the Commission to the production unit. O. Reg. 479/90, s. 11.

FARM INCOME STABILIZATION COMMISSION  
OF ONTARIO:

KEITH PINDER  
*Chairman*

MICHELE HILL  
*Secretary*

Dated at Toronto, this 29th day of January, 1990.

34/90

## FARM PRODUCTS GRADES AND SALES ACT

O. Reg. 480/90.

Grades—Fruit and Vegetables.

Made—July 27th, 1990.

Filed—August 3rd, 1990.

## REGULATION TO AMEND REGULATION 332 OF REVISED REGULATIONS OF ONTARIO, 1980 MADE UNDER THE FARM PRODUCTS GRADES AND SALES ACT

1. Part VII of Regulation 332 of Revised Regulations of Ontario, 1980 is amended by adding immediately after the heading "Fresh Fruit and Vegetable Grade Standards" the following section:

41a.—(1) The grade names adopted or established in this Part shall only be applied to or used in connection with produce grown in Canada.

(2) The grade names to be applied to or used in connection with imported produce are the same as those for produce grown in Canada except that the words "Canada" and "Ontario" are deleted from them.

(3) Produce imported into Ontario that bears a grade name formed in accordance with subsection (2) shall comply with the same grade standards, established under the *Canada Agricultural Products Act* and adopted in this Part, as produce grown in Canada that bears a corresponding grade name.

(4) As of the 1st day of July, 1990, no person shall be in conformity with clause 13 (b) and section 14 of this Regulation, unless the person uses a grade name formed in accordance with subsection (2) when stating the grade of imported produce.

(5) As of the 1st day of January, 1991, no person shall be in conformity with clause 10 (b) of this Regulation, unless the person uses a grade name formed in accordance with subsection (2) when designating the grade of imported produce. O. Reg. 480/90, s. 1.

34/90



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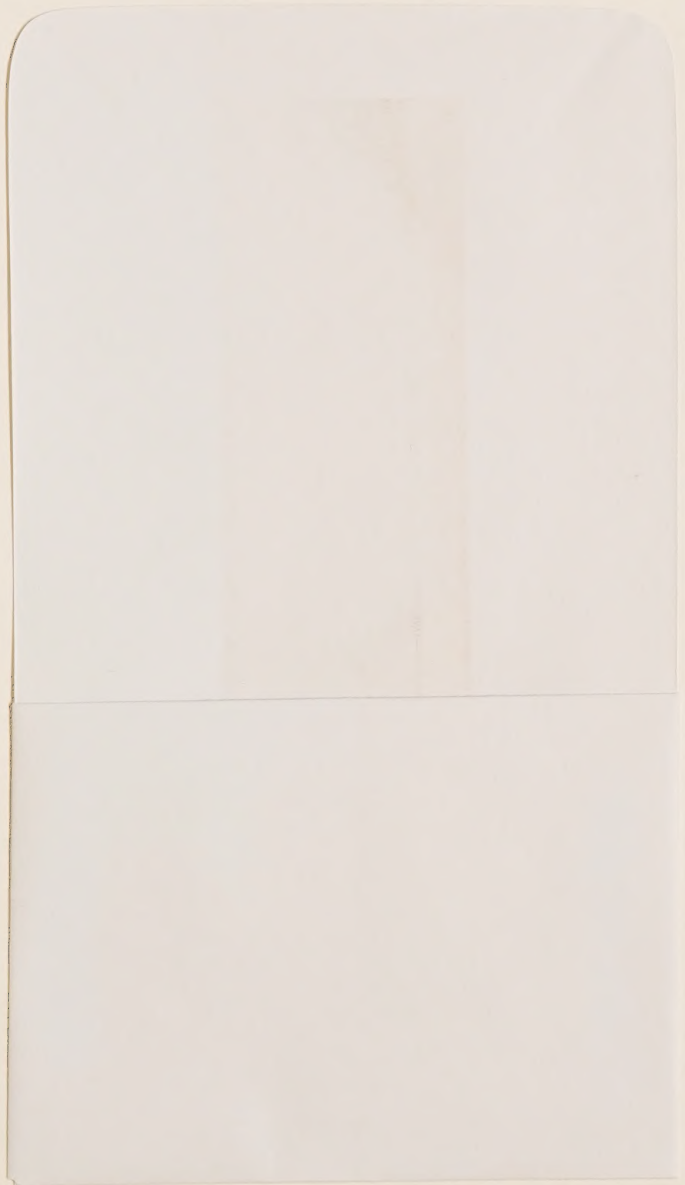
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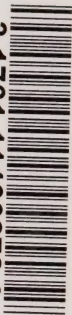




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